

High-Purity Standards

Catalogue number: CRM-WF

Version No: 1.1 Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

SECTION 1 IDENTIFICATION

Product Identifier

Product name	Certified Reference Materials- Wheat Flour Solution
Synonyms	CRM-WF
Proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s.
Other means of identification	CRM-WF

Recommended use of the chemical and restrictions on use

Relevant identified uses Use according to manufacturer's directions.

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	High-Purity Standards
Address	PO Box 41727 SC 29423 United States
Telephone	843-767-7900
Fax	843-767-7906
Website	highpuritystandards.com
Email	Not Available

Emergency phone number

• • •	
Association / Organisation	INFOTRAC
Emergency telephone numbers	1-800-535-5053
Other emergency telephone numbers	1-352-323-3500

SECTION 2 HAZARD(S) IDENTIFICATION

Classification	Metal Corrosion Category 1, Skin Corrosion/Irritation Category 1A	
_abel elements		
Hazard pictogram(s)		
SIGNAL WORD	DANGER	
lazard statement(s)		
H290	May be corrosive to metals.	
H314	Causes severe skin burns and eye damage.	

Hazard(s) not otherwise specified

Not Applicable

Chemwatch Hazard Alert Code: 3

Issue Date: 05/19/2017 Print Date: 05/19/2017

S.GHS.USA.EN

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P260	Do not breathe dust/fume/gas/mist/vapours/spray.
Precautionary statement(s)	Response
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Precautionary statement(s) Storage	
Precautionary statement(s) P405	Storage Store locked up.
	Store locked up.

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
7429-90-5	<0.001	aluminium
7440-38-2	<0.001	arsenic
471-34-1	<0.001	calcium carbonate
7440-43-9	<0.001	cadmium
7440-47-3	<0.001	chromium
7440-48-4	<0.001	cobalt
7440-50-8	<0.001	copper
7439-89-6	<0.001	iron
7439-92-1	<0.001	lead
7439-95-4	0.002	magnesium
6156-78-1	<0.001	manganese(II) acetate tetrahydrate
7440-02-0	<0.001	nickel
7722-76-1	0.006	ammonium phosphate, monobasic
7440-09-7	0.006	potassium
7782-49-2	<0.001	selenium
7664-93-9	<0.001	sulfuric acid
7440-66-6	<0.001	zinc
7697-37-2	4	nitric acid
7732-18-5	balance	water

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4 FIRST-AID MEASURES

Description of first aid measures

Eye Contact	 If this product comes in contact with the eyes: Immediately hold eyelids apart and flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	 If skin or hair contact occurs: Immediately flush body and clothes with large amounts of water, using safety shower if available. Quickly remove all contaminated clothing, including footwear. Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre. Transport to hospital, or doctor.
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor, without delay. Inhalation of vapours or aerosols (mists, fumes) may cause lung oedema. Corrosive substances may cause lung damage (e.g. lung oedema, fluid in the lungs). As this reaction may be delayed up to 24 hours after exposure, affected individuals need complete rest (preferably in semi-recumbent posture) and must be kept under medical observation even if no symptoms are (yet) manifested. Before any such manifestation, the administration of a spray containing a dexamethasone derivative or beclomethasone derivative may be considered. This must definitely be left to a doctor or person authorised by him/her. (ICSC13719)

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	 For advice, contact a Poisons Information Centre or a doctor at once. Urgent hospital treatment is likely to be needed.
	If swallowed do NOT induce vomiting.
Ingestion	If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
ingestion	Observe the patient carefully.
	Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.
	Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
	Transport to hospital or doctor without delay.

Most important symptoms and effects, both acute and delayed

See Section 11

Indication of any immediate medical attention and special treatment needed

For acute or short term repeated exposures to strong acids:

- Airway problems may arise from laryngeal edema and inhalation exposure. Treat with 100% oxygen initially.
- Respiratory distress may require cricothyroidotomy if endotracheal intubation is contraindicated by excessive swelling
- Intravenous lines should be established immediately in all cases where there is evidence of circulatory compromise.
- Strong acids produce a coagulation necrosis characterised by formation of a coagulum (eschar) as a result of the dessicating action of the acid on proteins in specific tissues.
- INGESTION:
- Immediate dilution (milk or water) within 30 minutes post ingestion is recommended.
- DO NOT attempt to neutralise the acid since exothermic reaction may extend the corrosive injury.
- Be careful to avoid further vomit since re-exposure of the mucosa to the acid is harmful. Limit fluids to one or two glasses in an adult.
- Charcoal has no place in acid management.
- Some authors suggest the use of lavage within 1 hour of ingestion.

SKIN:

Skin lesions require copious saline irrigation. Treat chemical burns as thermal burns with non-adherent gauze and wrapping.

Deep second-degree burns may benefit from topical silver sulfadiazine.
 EYE:

- Eye injuries require retraction of the eyelids to ensure thorough irrigation of the conjuctival cul-de-sacs. Irrigation should last at least 20-30 minutes. DO NOT use neutralising agents or any other additives. Several litres of saline are required.
- Cycloplegic drops, (1% cyclopentolate for short-term use or 5% homatropine for longer term use) antibiotic drops, vasoconstrictive agents or artificial tears may be indicated dependent on the severity of the injury.
- Steroid eye drops should only be administered with the approval of a consulting ophthalmologist).

[Ellenhorn and Barceloux: Medical Toxicology]

SECTION 5 FIRE-FIGHTING MEASURES

Extinguishing media

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

Special hazards arising from the substrate or mixture

Fire Incompatibility None known

Special protective equipment and precautions for fire-fighters

Fire Fighting	
Fire/Explosion Hazard	 Non combustible. Not considered to be a significant fire risk. Acids may react with metals to produce hydrogen, a highly flammable and explosive gas. Heating may cause expansion or decomposition leading to violent rupture of containers. May emit corrosive, poisonous fumes. May emit acrid smoke. When aluminium oxide dust is dispersed in air, firefighters should wear protection against inhalation of dust particles, which can also contain hazardous substances from the fire absorbed on the alumina particles.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Drains for storage or use areas should have retention basins for pH adjustments and dilution of spills before discharge or disposal of material. Check regularly for spills and leaks. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.
Major Spills	#

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Safe handling	 Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. WARNING: To avoid violent reaction, ALWAYS add material to water and NEVER water to material. Avoid smoking, naked lights or ignition sources. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with scap and water after handling. Work clothes should be laundered separately. Launder contaminated clothing before re-use. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.
Other information	 Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.

Conditions for safe storage, including any incompatibilities

Suitable container	 DO NOT use aluminium or galvanised containers Check regularly for spills and leaks Lined metal can, lined metal pail/ can. Plastic pail. Polyliner drum. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks. For low viscosity materials Drums and jerricans must be of the non-removable head type. Where a can is to be used as an inner package, the can must have a screwed enclosure. For materials with a viscosity of at least 2680 cSt. (23 deg. C) and solids (between 15 C deg. and 40 deg C.): Removable head packaging; Cans with friction closures and low pressure tubes and cartridges may be used. -
Storage incompatibility	 For aluminas (aluminium oxide): Incompatible with hot chlorinated rubber. In the presence of chlorine trifluoride may react violently and ignite. -May initiate explosive polymerisation of olefin oxides including ethylene oxide. -Produces exothermic reaction above 200 C with halocarbons and an exothermic reaction at ambient temperatures with halocarbons in the presence of other metals. -Produces exothermic reaction with oxygen difluoride. -May form explosive mixtures with oxygen difluoride. -Forms explosive mixtures with oxygen difluoride. -Forms explosive mixtures with oxygen difluoride. -Reacts vigorously with vinyl acetate. Aluminium oxide is an amphoteric substance, meaning it can react with both acids and bases, such as hydrofluoric acid and sodium hydroxide, acting as an acid with a base and a base with an acid, neutralising the other and producing a salt. Inorganic acids are generally soluble in water with the release of hydrogen ions. The resulting solutions have pH's of less than 7.0. Inorganic acids neutralise chemical bases (for example: amines and inorganic hydroxides) to form salts - neutralisation can generate dangerously large amounts of heat in small spaces. The dissolution of inorganic acids in water or the dilution of their concentrated solutions with additional water may generate significant heat. The addition of water to inorganic acids often generates sufficient heat in the small region of mixing to cause some of the water to boil explosively. The resulting "bumping" can spatter the acid. Inorganic acids react with acide compounds to release gaseous hydrogen cyanide. Inorganic acids react with cyanide compounds to release gaseous hydrogen cyanide. Inorganic acids generate flammable and/or toxic gases in contact with dithiocarbamates, isocyanates, mercaptans, nitrides, nitriles, sulfides, and strong reducing agents. Additional gas-ge

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)						
INGREDIENT DATA						
Source	Ingredient	Material name	TWA	STEL	Peak	Notes

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US OSHA Permissible Exposure Levels (PELs) - Table Z1	aluminium	Aluminum, metal	15 mg/m3	Not Available	Not Available	Total dust; (as Al)
US OSHA Permissible Exposure Levels (PELs) - Table Z1	aluminium	Aluminum, metal- Respirable fraction	5 mg/m3	Not Available	Not Available	(as Al)
US NIOSH Recommended Exposure Limits (RELs)	aluminium	Aluminium, Aluminum metal, Aluminum powder, Elemental aluminum	10 (total), 5 (resp) mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	arsenic	Arsenic metal: Arsenia	Not Available	Not Available	0.002 mg/m3	Ca See Appendix A
US NIOSH Recommended Exposure Limits (RELs)	calcium carbonate	Calcium salt of carbonic acid [Note: Occurs in nature as as limestone, chalk, marble, dolomite, aragonite, calcite and oyster shells.]	10 (total), 5 (resp) mg/m3	Not Available	Not Available	Total dust
US OSHA Permissible Exposure Levels (PELs) - Table Z1	calcium carbonate	Calcium carbonate	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Levels (PELs) - Table Z1	calcium carbonate	Calcium carbonate - Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	calcium carbonate	Calcium carbonate, Natural calcium carbonate [Note: Calcite & aragonite are commercially important natural calcium carbonates.]	10 (total), 5 (resp) mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	calcium carbonate	Calcium carbonate, Natural calcium carbonate [Note: Marble is a metamorphic form of calcium carbonate.]	10 (total), 5 (resp) mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Levels (PELs) - Table Z1	cadmium	Cadmium	0.005 mg/m3	Not Available	Not Available	see 1910.1027;(as Cd)
US NIOSH Recommended Exposure Limits (RELs)	cadmium	Cadmium metal: Cadmium	0.01 mg/m3	Not Available	Not Available	Ca See Appendix A [*Note: The REL applies to all Cadmium compounds (as Cd).]
US ACGIH Threshold Limit Values (TLV)	cadmium	Cadmium	Not Available	Not Available	Not Available	TLV® Basis: Kidney dam; BEI
US NIOSH Recommended Exposure Limits (RELs)	chromium	Chrome, Chromium	0.5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Levels (PELs) - Table Z1	cobalt	Cobalt metal, dust, and fume	0.1 mg/m3	Not Available	Not Available	(as Co)
US NIOSH Recommended Exposure Limits (RELs)	cobalt	Cobalt metal dust, Cobalt metal fume	0.05 mg/m3	Not Available	Not Available	TLV® Basis: Pneumonitis
US ACGIH Threshold Limit Values (TLV)	cobalt	Hard metals containing Cobalt and Tungsten carbide, as Co	0.005 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	copper	Copper metal dusts, Copper metal fumes	1 mg/m3	Not Available	Not Available	[*Note: The REL also applies to other copper compounds (as Cu) except Copper fume.]
US ACGIH Threshold Limit Values (TLV)	copper	Copper - Fume, as Cu	0.2 mg/m3	Not Available	Not Available	TLV® Basis: Irr; GI; metal fume fever; BEI
US ACGIH Threshold Limit Values (TLV)	copper	Copper - Dusts and mists, as Cu	1 mg/m3	Not Available	Not Available	TLV® Basis: Irr; GI; metal fume fever; BEI
US NIOSH Recommended Exposure Limits (RELs)	lead	Lead metal, Plumbum	0.050 mg/m3	Not Available	Not Available	See Appendix C [*Note: The REL also applies to other lead compounds (as Pb) see Appendix C.]
US NIOSH Recommended Exposure Limits (RELs)	nickel	Nickel metal: Elemental nickel, Nickel catalyst	0.015 mg/m3	Not Available	Not Available	Ca See Appendix A [*Note: The REL does not apply to Nickel carbonyl.]
US ACGIH Threshold Limit Values (TLV)	nickel	Nickel and inorganic compounds including Nickel subsulfide, as Ni - Elemental	1.5 mg/m3	Not Available	Not Available	TLV® Basis: Dermatitis; pneumoconiosis
US NIOSH Recommended Exposure Limits (RELs)	selenium	Elemental selenium, Selenium alloy	0.2 mg/m3	Not Available	Not Available	[*Note: The REL also applies to other selenium compounds (as Se) except Selenium hexafluoride.]
US OSHA Permissible Exposure Levels (PELs) - Table Z1	sulfuric acid	Sulfuric acid	1 mg/m3	Not Available	Not Available	TLV® Basis: Pulm func
US NIOSH Recommended Exposure Limits (RELs)	sulfuric acid	Battery acid, Hydrogen sulfate, Oil of vitriol, Sulfuric acid (aqueous)	1 mg/m3	Not Available	Not Available	Not Available
US ACGIH Threshold Limit Values (TLV)	sulfuric acid	Sulfuric acid	0.2 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Levels (PELs) - Table Z1	nitric acid	Nitric acid	5 mg/m3 / 2 ppm	10 mg/m3 / 4 ppm	Not Available	TLV® Basis: URT & eye irr; dental erosion
US NIOSH Recommended Exposure Limits (RELs)	nitric acid	Aqua fortis, Engravers acid, Hydrogen nitrate, Red fuming nitric acid (RFNA), White fuming nitric acid (WFNA)	5 mg/m3 / 2 ppm	4 ppm	Not Available	Not Available

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US ACGIH Threshold Limit Values (TLV)	nitric acid	Nitric acid	2 ppm	Not Available	Not Available	Not Available	
EMERGENCY LIMITS							
Ingredient	Material name)		TEEL-1		TEEL-2	TEEL-3
calcium carbonate	Limestone; (Ca	alcium carbonate; Dolomite)		45 mg/m	3	500 mg/m3	3,000 mg/m3
calcium carbonate	Carbonic acid,	Carbonic acid, calcium salt		45 mg/m	3	210 mg/m3	1,300 mg/m3
cadmium	Cadmium			Not Ava	lable	Not Available	Not Available
chromium	Chromium			1.5 mg/n	13	17 mg/m3	99 mg/m3
cobalt	Cobalt			0.18 mg	m3	2 mg/m3	20 mg/m3
copper	Copper			3 mg/m3		33 mg/m3	200 mg/m3
iron	Iron			3.2 mg/n	า3	35 mg/m3	150 mg/m3
lead	Lead			0.15 mg/	m3	120 mg/m3	700 mg/m3
magnesium	Magnesium			18 mg/m	3	200 mg/m3	1,200 mg/m3
manganese(II) acetate tetrahydrate	Acetic acid, ma	anganese(2+) salt, tetrahydrate		13 mg/m	3	22 mg/m3	740 mg/m3
manganese(II) acetate tetrahydrate	Acetic acid, ma	anganese(II) salt (2:1)		9.4 mg/n	า3	16 mg/m3	96 mg/m3
nickel	Nickel			4.5 mg/n	13	50 mg/m3	99 mg/m3
ammonium phosphate, monobasic	Ammonium dihydrogen phosphate; (Monoammonium phosphate)			17 mg/m	3	190 mg/m3	1,100 mg/m3
potassium	Potassium	Potassium			า3	25 mg/m3	150 mg/m3
selenium	Selenium		0.6 mg/n	า3	6.6 mg/m3	40 mg/m3	
sulfuric acid	Sulfuric acid		Not Ava	lable	Not Available	Not Available	
zinc	Zinc		6 mg/m3		21 mg/m3	120 mg/m3	
nitric acid	Nitric acid	Nitric acid		Not Ava	lable	Not Available	Not Available
Ingredient	Original IDLH	l		Revised I	DLH		
aluminium	Not Available			Not Availab	Not Available		
arsenic	100 mg/m3			5 mg/m3	5 mg/m3		
calcium carbonate	Not Available			Not Availab	le		
cadmium	50 mg/m3 / 9 m	ng/m3		9 mg/m3 / 9	[Unch] mg/m3	3	
chromium	N.E. / N.E.			250 mg/m3			
cobalt	20 mg/m3			20 [Unch] mg/m3			
copper	N.E. / N.E.			100 mg/m3			
iron	Not Available			Not Available			
lead	700 mg/m3			100 mg/m3			
magnesium	Not Available			Not Availab	le		
manganese(II) acetate tetrahydrate	N.E. / N.E.			500 mg/m3			
nickel	N.E. / N.E.			10 mg/m3			
ammonium phosphate, monobasic	Not Available			Not Availab	le		
potassium	Not Available			Not Available			
selenium	Unknown mg/m	n3 / Unknown ppm		1 mg/m3			
sulfuric acid	80 mg/m3			15 mg/m3			
zinc	Not Available			Not Availab	le		
nitric acid	100 ppm			25 ppm			
water	Not Available			Not Availab	le		

Exposure controls

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that a "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventil the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain an Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection. An approved self contained breathing apparatus (SCBA) may be required in some situations. Provide adequate ventilation in warehouse or closed storage area. Air contaminants generated in the workplace possess varying "e	dequate protection.
	turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant. Type of Contaminant:	Air Speed:

	solvent, vapours, degreasing etc., evaporating from tank (in still air).	0.25-0.5 m/s (50-100 f/min.)				
	aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, acid fumes, pickling (released at low velocity into zone of active generation)	0.5-1 m/s (100-200 f/min.)				
	direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas disc zone of rapid air motion)	direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion) 1-2.5 m				
	grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).					
	Within each range the appropriate value depends on:					
	Lower end of the range	Upper end of the range				
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents				
	2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity				
	3: Intermittent, low production.	3: High production, heavy use				
	4: Large hood or large air mass in motion	4: Small hood-local control only				
	Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extra of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point s distance from the contaminating source. The air velocity at the extraction fan, for example, should be a solvents generated in a tank 2 meters distant from the extraction point. Other mechanical consideration apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when o	should be adjusted, accordingly, a minimum of 1-2 m/s (200-400 f/m ns, producing performance deficit	fter reference to hin) for extraction of is within the extraction			
Personal protection						
Eye and face protection	 Safety glasses with unperforated side shields may be used where continuous eye protection is de where complete eye protection is needed such as when handling bulk-quantities, where there is a pressure. Chemical goggles.whenever there is a danger of the material coming in contact with the eyes; get Full face shield (20 cm, 8 in minimum) may be required for supplementary but never for primary p Alternatively a gas mask may replace splash goggles and face shields. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irrital lenses or restrictions on use, should be created for each workplace or task. This should include a chemicals in use and an account of injury experience. Medical and first-aid personnel should be treadily available. In the event of chemical exposure, begin eye irrigation immediately and remove or at the first signs of eye redness or irritation - lens should be removed in a clean environment only a Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent] 	a danger of splashing, or if the mail oggles must be properly fitted. rotection of eyes; these afford face ints. A written policy document, de a review of lens absorption and ad rained in their removal and suitab contact lens as soon as practicabl	terial may be under e protection. escribing the wearing of Isorption for the class of le equipment should be e. Lens should be remov			
Eye and face protection	 where complete eye protection is needed such as when handling bulk-quantities, where there is a pressure. Chemical goggles.whenever there is a danger of the material coming in contact with the eyes; go Full face shield (20 cm, 8 in minimum) may be required for supplementary but never for primary p Alternatively a gas mask may replace splash goggles and face shields. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritat lenses or restrictions on use, should be created for each workplace or task. This should include a chemicals in use and an account of injury experience. Medical and first-aid personnel should be treadily available. In the event of chemical exposure, begin eye irrigation immediately and remove of at the first signs of eye redness or irritation - lens should be removed in a clean environment only at the first signs of eye redness or irritation - lens should be removed in a clean environment only at the first signs of eye redness or irritation. 	a danger of splashing, or if the mail oggles must be properly fitted. rotection of eyes; these afford face ints. A written policy document, de a review of lens absorption and ad rained in their removal and suitab contact lens as soon as practicabl	terial may be under e protection. escribing the wearing of Isorption for the class of le equipment should be e. Lens should be remov			
· ·	 where complete eye protection is needed such as when handling bulk-quantities, where there is a pressure. Chemical goggles whenever there is a danger of the material coming in contact with the eyes; go Full face shield (20 cm, 8 in minimum) may be required for supplementary but never for primary pi Alternatively a gas mask may replace splash goggles and face shields. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irrital lenses or restrictions on use, should be created for each workplace or task. This should include a chemicals in use and an account of injury experience. Medical and first-aid personnel should be treadily available. In the event of chemical exposure, begin eye irrigation immediately and remove of at the first signs of eye redness or irritation - lens should be removed in a clean environment only a Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent] 	a danger of splashing, or if the mail oggles must be properly fitted. rotection of eyes; these afford fac- ints. A written policy document, de review of lens absorption and ad rained in their removal and suitab contact lens as soon as practicabl after workers have washed hands	terial may be under e protection. escribing the wearing of Isorption for the class of le equipment should be e. Lens should be remo			
Skin protection	 where complete eye protection is needed such as when handling bulk-quantities, where there is a pressure. Chemical goggles.whenever there is a danger of the material coming in contact with the eyes; ge Full face shield (20 cm, 8 in minimum) may be required for supplementary but never for primary pi Alternatively a gas mask may replace splash goggles and face shields. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irrita lenses or restrictions on use, should be created for each workplace or task. This should include a chemicals in use and an account of injury experience. Medical and first-aid personnel should be tr readily available. In the event of chemical exposure, begin eye irrigation immediately and remove of at the first signs of eye redness or irritation - lens should be removed in a clean environment only a Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent] See Hand protection below Elbow length PVC gloves 	a danger of splashing, or if the mail oggles must be properly fitted. rotection of eyes; these afford fac- ints. A written policy document, de review of lens absorption and ad rained in their removal and suitab contact lens as soon as practicabl after workers have washed hands	terial may be under e protection. escribing the wearing of Isorption for the class of le equipment should be e. Lens should be remo			
Skin protection Hands/feet protection	 where complete eye protection is needed such as when handling bulk-quantities, where there is a pressure. Chemical goggles.whenever there is a danger of the material coming in contact with the eyes; gr Full face shield (20 cm, 8 in minimum) may be required for supplementary but never for primary p Alternatively a gas mask may replace splash goggles and face shields. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritat lenses or restrictions on use, should be created for each workplace or task. This should include a chemicals in use and an account of injury experience. Medical and first-aid personnel should be treadily available. In the event of chemical exposure, begin eye irrigation immediately and remove or at the first signs of eye redness or irritation - lens should be removed in a clean environment only a Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent] See Hand protection below Elbow length PVC gloves When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid spills entering the subscience of the soft of th	a danger of splashing, or if the mail oggles must be properly fitted. rotection of eyes; these afford fac- ints. A written policy document, de review of lens absorption and ad rained in their removal and suitab contact lens as soon as practicabl after workers have washed hands	terial may be under e protection. escribing the wearing of Isorption for the class o le equipment should be e. Lens should be remo			

Respiratory protection

Type A Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Colourless		
Physical state	Liquid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available

Version No: 1.1

Catalogue number: CRM-WF

Certified Reference Materials- Wheat Flour Solution

Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	Contact with alkaline material liberates heat
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled	The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Corrosive acids can cause irritation of the respiratory tract, with coughing, choking and mucous membrane damage. There may be dizziness, headache, nausea and weakness. The material has NOT been classified by EC Directives or other classification systems as "harmful by inhalation". This is because of the lack of corroborating animal or human evidence.				
Ingestion	Ingestion of acidic corrosives may produce burns around and in the mouth, the throat and oesophagus. Immediate pain and difficulties in swallowing and speaking may also be evident. The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.				
Skin Contact	Skin contact with acidic corrosives may result in pain and burns; these may be deep with distinct edges and may heal slowly with the formation of scar tissue. Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. Though considered non-harmful, slight irritation may result from contact because of the abrasive nature of the aluminium oxide particles. Thus it may cause itching and skin reaction and inflammation. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.				
Eye	If applied to the eyes, this material causes severe eye damage. Direct eye contact with acid corrosives may produce pain, tears, sensitivity to light and burns. Mild burns of the epithelia generally recover rapidly and completely.				
Chronic	Repeated or prolonged exposure to acids may result in the erc and inflammation of lung tissue often occurs. Long-term exposure to respiratory irritants may result in airway Substance accumulation, in the human body, may occur and ma Animal testing shows long term exposure to aluminium oxides the greater the tendencies of causing harm.	vs disease, involving ay cause some con	g difficulty breathing and re acern following repeated or	lated whole-body problems. long-term occupational exposure.	
Certified Reference Materials- Wheat Flour	тохісіту		IRRITATION		
Solution	Not Available		Not Available		
aluminium	TOXICITY Oral (rat) LD50: >2000 mg/kg ^[1]			IRRITATION Not Available	
arsenic	TOXICITY Oral (rat) LD50: 763 mg/kg ^[2]			IRRITATION Not Available	
calcium carbonate	TOXICITY IRRITATION dermal (rat) LD50: >2000 mg/kg ^[1] Eye (rabbit): 0.75 mg/24h - SEVER Oral (rat) LD50: >2000 mg/kg ^[1] Skin (rabbit): 500 mg/24h-moderat				
cadmium	TOXICITY Oral (rat) LD50: >63<259 mg/kg> ^[1]			IRRITATION Not Available	

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	Antio dolu					

Certified Reference Materials- Wheat Flour Solution

	Inhalation (rat) LC50: 625 ppm/1h*t ^[2]		Not Available			
	TOXICITY	IRRITATION				
water	Not Available	Not Available				
Legend:	1. Value obtained from Europe ECHA Registered Substances extracted from RTECS - Register of Toxic Effect of chemical	-	from manufacturer's SDS. Unless otherwise specified data			
ARSENIC	Arsenic compounds are classified by the European Union as WARNING: This substance has been classified by the IARC Tumorigenic - Carcinogenic by RTECS criteria.	, ,				
CALCIUM CARBONATE	No evidence of carcinogenic properties. teratogenic effects.					
CHROMIUM	Tenth Annual Report on Carcinogens: Substance known to be [National Toxicology Program: U.S. Dep.	On skin and inhalation exposure, chromium and its compounds (except hexavalent) can be a potent sensitiser, as particulates. Tenth Annual Report on Carcinogens: Substance known to be Carcinogenic [<i>National Toxicology Program: U.S. Dep.</i> Gastrointestinal tumours, lymphoma, musculoskeletal tumours and tumours at site of application recorded.				
COBALT	Allergic reactions involving the respiratory tract are usually due to interactions between IgE antibodies and allergens and occur rapidly. Attention should be paid to atopic diathesis, characterised by increased susceptibility to nasal inflammation, asthma and eczema. Exogenous allergic alveolitis is induced essentially by allergen specific immune-complexes of the IgG type; cell-mediated reactions (T lymphocytes) may be involved.					
COPPER	for copper and its compounds (typically copper chloride): Acute toxicity: There are no reliable acute oral toxicity results available. WARNING: Inhalation of high concentrations of copper fume may cause "metal fume fever", an acute industrial disease of short duration. tiredness, influenza like respiratory tract irritation with fever.					
LEAD	WARNING: Lead is a cumulative poison and has the potential to cause abortion and intellectual impairment to unborn children of pregnant workers.					
NICKEL	Tenth Annual Report on Carcinogens: Substance anticipated to be Carcinogen [<i>National Toxicology Program: U.S. Dep.</i> Oral (rat) TDLo: 500 mg/kg/5D-I Inhalation (rat) TCLo: 0.1 mg/m3/24H/17W-C					
SULFURIC ACID	WARNING: For inhalation exposure <u>ONLY</u> : This substance h Occupational exposures to strong inorganic acid mists of sul		Group 1: CARCINOGENIC TO HUMANS			
NITRIC ACID	For acid mists, aerosols, vapours Test results suggest that eukaryotic cells are susceptible to ge The material may produce respiratory tract irritation, and resu The material may cause severe skin irritation after prolonged of vesicles, scaling and thickening of the skin. Oral (?) LD50: 50-500 mg/kg * [Various Manufacturers]	It in damage to the lung including r	educed lung function.			
ALUMINIUM & CHROMIUM & AMMONIUM PHOSPHATE, MONOBASIC & POTASSIUM & WATER	No significant acute toxicological data identified in literature search.					
CALCIUM CARBONATE & MANGANESE(II) ACETATE TETRAHYDRATE & AMMONIUM PHOSPHATE, MONOBASIC & POTASSIUM & SULFURIC ACID & NITRIC ACID	Asthma-like symptoms may continue for months or even years after exposure to the material ends.					
CALCIUM CARBONATE & NITRIC ACID	The material may produce severe irritation to the eye causing	pronounced inflammation.				
CALCIUM CARBONATE & ZINC	The material may cause skin irritation after prolonged or repea scaling and thickening of the skin.	ated exposure and may produce on	contact skin redness, swelling, the production of vesicles,			
CHROMIUM & SELENIUM	The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans.					
COBALT & NICKEL	The following information refers to contact allergens as a grou	up and may not be specific to this p	roduct.			
COBALT & NICKEL	WARNING: This substance has been classified by the IARC	as Group 2B: Possibly Carcinoger	nic to Humans.			
Acute Toxicity	0	Carcinogenicity	0			
Skin Irritation/Corrosion	 ✓ 	Reproductivity	0			
	•	Reproductivity	<u>v</u>			

Serious Eye Damage/Irritation	0	STOT - Single Exposure	0
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	0
Mutagenicity	\odot	Aspiration Hazard	\otimes
			 Data available but does not fill the criteria for classification Data available to make classification

S – Data Not Available to make classification

Certified Reference Materials- Wheat Flour	ENDPOINT TEST DURATION (HR)			SPECIES	VALUE		SOURCE
Solution	Not Applicable	Not Applicable		Not Applicable Not App		able	Not Applicable
	ENDPOINT	TEST DURATION (HR)	SPECIE	S	V	ALUE	SOURCE
	LC50	96	Fish	Fish			2
	EC50	48	Crustad	ea	0.	7364mg/L	2
aluminium	EC50	96	Algae o	Algae or other aquatic plants			2
	BCF	360	Algae o	Algae or other aquatic plants			4
	EC50	120	Fish	Fish			5
	NOEC	72	Algae o	r other aquatic plants	>	=0.004mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPE	ECIES		VALUE	SOURCE
	LC50	96	Fist	1		9.9mg/L	4
arsenic	EC50	336	Alga	ae or other aquatic plan	S	0.63mg/L	4
	NOEC	336		ae or other aquatic plan		<0.75mg/L	. 4
	ENDPOINT	TEST DURATION (HR)	SPE	CIES		VALUE	SOURCE
calcium carbonate	LC50	96	Fish			>56000mg/L	
	EC50	72		e or other aquatic plants		>14mg/L	2
	NOEC	72	Alga	e or other aquatic plants		14mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECI	SPECIES VALUE		ALUE	SOURCE
	LC50	96	Fish		0	.001mg/L	4
	EC50	48	Crustad	stacea		.0033mg/L	5
cadmium	EC50	72	Algae o	r other aquatic plants	0	.018mg/L	2
	BCF	960	Fish		5	00mg/L	4
	EC50	336	Crustad	cea	0	.00065mg/L	5
	NOEC	168	Fish		0	.00001821mg/L	4
	ENDPOINT		SPE			VALUE	SOURCE
	LC50	TEST DURATION (HR) 96		JE3			
			Fish			13.9mg/L	4
ahramium	EC50 EC50	48 72		acea		0.0225mg/L	5
chromium	BCF	1440	-	e or other aquatic plants		0.104mg/L 0.0495mg/L	4
	EC50	48	-	Algae or other aquatic plants Crustacea		-	5
	NOEC	672	Fish			0.0245mg/L 0.00019mg/L	
		·	I			·	
	ENDPOINT	TEST DURATION (HR)	SPE	SPECIES		VALUE	SOURCE
	LC50	96	Fish			1.406mg/L	2
	EC50	48	Crus	stacea		>0.89mg/L	2
cobalt	EC50	72	Alga	e or other aquatic plant	6	0.144mg/L	2
	BCF	1344	Fish	Fish		0.99mg/L	4
	EC50	70	Alga	Algae or other aquatic plants		0.02mg/L	2
	NOEC	168	Alga	Algae or other aquatic plants		0.0018mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPEC	IES		VALUE	SOURCE
	LC50	96	Fish			0.0028mg/L	2
	EC50	48	Crusta	acea		0.001mg/L	5
copper	EC50	72		or other aquatic plants		0.013335mg/L	
copper	BCF	960	Fish			200mg/L	4
	EC50	96		2023		0.001mg/L	5
		50	UluSta	Crustacea		0.00 mg/L	5

ENDROINT	TEC		SDECIE	.e					SOURCE
		DUKATION (HR)		.5					SOURCE
				r other =	untin plants		•		2
					ualic plants		-	og/l	4
								ig/L	4
				ea			-		2
NUEC	504		FISN				J.52mg/L		2
ENDPOINT	TES	T DURATION (HR)	SPEC	IES			VALUE		SOURCE
LC50	96		Fish				0.0079mg	g/L	2
EC50	48		Crusta	icea				-	2
EC50	72	72		or other a	quatic plants		-		2
BCFD	8		Fish					-	4
EC50	48		Algae	or other a	quatic plants		0.0217mg	g/L	2
NOEC	672		Fish				0.00003n	ng/L	4
ENDPOINT		ST DURATION (HR)		CIES					SOURCE
LC50	96		Fish						2
EC50	72							-	2
EC50	72		-					-	2
NOEC	72		Algae	e or other	aquatic plants		>25.5n	ng/L	2
ENDPOINT		TEST DURATION (HR)		SPECIE	s	VALUE		S	OURCE
							able		ot Applicable
riet, phoable						1.007.000			, pp. ioubio
ENDPOINT	TES	T DURATION (HR)	SPECIE	S		,	VALUE		SOURCE
LC50	96	96					0.0000475m	ng/L	4
EC50	48		Crustac	ea			0.013mg/L	-	5
EC50	72		Algae o	r other aq	uatic plants		0.0407mg/L		2
BCF	1440		Algae of	r other aq	uatic plants).47mg/L		4
EC50	720		Crustac	ea			0.0062mg/L		2
NOEC	72		Algae o	r other aqı	uatic plants	1).0035mg/L		2
ENDPOINT	TES	ST DURATION (HR)	SPE	CIES			VALUE	E	SOURCE
LC50	96		Fish				>85.9n	ng/L	2
EC50	72		Algae	e or other	aquatic plants		>97.1n	ng/L	2
EC50	72	72		e or other	aquatic plants		>97.1n	ng/L	2
NOEC	72		Algae	e or other	aquatic plants		3.57m	g/L	2
ENDROINT		TEST DURATION (UP)			SDECIES	v			SOURCE
EC30		24			Crustacea	4(JUING/L		5
ENDPOINT	TES	T DURATION (HR)	SPECIE	ES			VALUE		SOURCE
LC50		, , ,	Fish					g/L	2
EC50	48		Crustad	cea			>0.1603mg	-	2
	72				uatic plants		>0.00173m	-	2
EC50			Algae or other aquatic plants Crustacea				0.711mg/L	-	4
EC50 BCF	504		Crustacea Algae or other aquatic plants			0			
	504 96			or other ad	uatic plants		0.355mg/L		2
BCF			Algae o		uatic plants uatic plants		0.355mg/L 0.000547m		2 2
BCF EC50	96		Algae o				-		
BCF EC50	96 72	ST DURATION (HR)	Algae o	or other aq			-	ng/L	
BCF EC50 NOEC	96 72	ST DURATION (HR)	Algae o	or other aq			0.000547m	ng/L	2
BCF EC50 NOEC ENDPOINT	96 72 TES	ST DURATION (HR)	Algae o Algae o SPEC	or other aq			0.000547m	ng/L	2 SOURCE
	LC50 EC50 BCFD EC50 NOEC ENDPOINT LC50 EC50 EC50 EC50 EC50 EC50 EC50 EC50 ENDPOINT LC50 EC50 EC50 EC50 EC50 BCF EC50 BCF EC50 NOEC NOEC ENDPOINT LC50 EC50 ENDPOINT EC50 ENDPOINT EC50 ENDPOINT EC50	LC50 96 EC50 96 BCF 24 EC50 504 NOEC 504 NOEC 96 EC50 96 EC50 96 EC50 96 EC50 48 EC50 48 EC50 48 NOEC 672 BCFD 8 EC50 72 BCFD 8 EC50 72 BCF 1440 EC50 72 BCF 1440 EC50 72 BCF 1440 EC50 72 NOEC 72 EC50 72 EC50 72 EC50 72 EC50 <	LC50 96 EC50 96 BCF 24 EC50 504 NOEC 504 NOEC 504 ENDPOINT TEST DURATION (HR) LC50 96 EC50 48 EC50 72 BCFD 8 EC50 48 EC50 48 NOEC 672 ENDPOINT TEST DURATION (HR) LC50 96 EC50 72 NOEC 72 NOEC 72 EC50 72 NOEC 72 NOEC 72 NOEC 72 NOEC 72 NOEC 72 ENDPOINT TEST DURATION (HR) LC50 96 EC50 72 BCF 1440 EC50 72 NOEC 72 ENDPOINT TEST DURATION (HR) LC50 96 EC50 72	LC5096FishEC5096Algae oBCF24CrustaeEC50504CrustaeNOEC504FishENDPOINTTEST DURATION (HR)SPECLC5096FishEC5048CrustaeBCFD8FishEC5048CrustaeBCFD8FishEC5048AlgaeNOEC672FishENDPOINTTEST DURATION (HR)SPECLC5096FishEC5072AlgaeNOEC72AlgaeIC5096FishEC5072AlgaeNOEC72AlgaeENDPOINTTEST DURATION (HR)SPECIELC5096FishEC5072AlgaeENDPOINTTEST DURATION (HR)SPECIELC5096FishEC5072AlgaeDCF1440AlgaeCC5072AlgaeNOEC72AlgaeENDPOINTTEST DURATION (HR)SPECIELC5096FishEC5072AlgaeENDPOINTTEST DURATION (HR)SPECIELC5096FishEC5072AlgaeENDPOINTTEST DURATION (HR)SPECIELC5096FishEC5072AlgaeENDPOINTTEST DURATION (HR)SPECIELC5096Fish<	LCS0 96 Fish EC50 96 Algae or other age BCF 24 Crustacea EC50 504 Crustacea NOEC 504 Fish ENDPOINT TEST DURATION (HR) SPECIES LCS0 96 Fish EC50 48 Crustacea EC50 48 Crustacea EC50 48 Algae or other age BCFD 8 Fish EC50 48 Algae or other age NOEC 672 Fish ENDPOINT TEST DURATION (HR) SPECIES LC50 96 Fish EC50 72 Algae or other NOEC 72 Algae or other age NOEC 72 Algae or other age NOT Applicable Not Applicable Not Appler	LC50 96 Fish EC50 96 Algae or other aquatic plants BCF 24 Crustacea EC50 504 Crustacea NOEC 504 Crustacea ENDPOINT TEST DURATION (HR) SPECIES LC50 96 Fish EC50 48 Crustacea EC50 48 Crustacea EC50 48 Crustacea EC50 48 Algae or other aquatic plants BCFD 8 Fish EC50 48 Algae or other aquatic plants NOEC 672 Fish EC50 72 Algae or other aquatic plants NOEC 72 Algae or other aquatic plants EC50 72 Algae or other aquatic plants NOEC 72 Algae or other aquatic plants </td <td>LC50 96 Fish Image: constraint of the sequence plants Image: consenter sequence plants</td> <td>LC50 96 Fish 0.05mg/L EC50 96 Agae or other aquatic plants 3.7mg/L ECF 24 Crustacea 0.0000027 EC50 504 Crustacea 4.49mg/L NOEC 504 Crustacea 4.49mg/L NOEC 504 Fish 0.022mg/L ENDPOINT TEST DURATION (HR) SPECIES VALUE LC50 96 Fish 0.022mg EC50 48 Crustacea 0.022mg EC50 48 Crustacea 0.0220m BCFD 8 Fish 4.324mg EC50 48 Agae or other aquatic plants 0.0217m NOEC 672 Fish 0.00000 LC50 56 Fish 0.000000 ENDPOINT TEST DURATION (HR) SPECIES VALUE LC50 72 Algae or other aquatic plants >.20m ENDPOINT TEST DURATION (HR) SPECIES VALUE Not Applicable<td>LCS0 96 Fish 0.06mgL EC50 96 Agae or other aquatic plants 3.7mgL BCF 24 Crustacea 0.000002mgL EC50 504 Crustacea 0.000002mgL NOEC 504 Crustacea 0.025mgL IC50 504 Crustacea 0.025mgL IC50 96 Fish 0.0279mgL EC50 48 Crustacea 0.025mgL EC50 48 Crustacea 0.025mgL EC50 48 Crustacea 0.027mgL BCFD 8 Fish 4.324mgL EC50 48 Agae or other aquatic plants 0.0200mgL IC50 96 Fish 541mgL IC50 72 Agae or other aquatic plants >20mgL IC50 72 Agae or other aquatic plants >20mgL IC50 72 Agae or other aquatic plants >20mgL IC50 72 Agae or other aquatic plants >2000007mgL</td></td>	LC50 96 Fish Image: constraint of the sequence plants Image: consenter sequence plants	LC50 96 Fish 0.05mg/L EC50 96 Agae or other aquatic plants 3.7mg/L ECF 24 Crustacea 0.0000027 EC50 504 Crustacea 4.49mg/L NOEC 504 Crustacea 4.49mg/L NOEC 504 Fish 0.022mg/L ENDPOINT TEST DURATION (HR) SPECIES VALUE LC50 96 Fish 0.022mg EC50 48 Crustacea 0.022mg EC50 48 Crustacea 0.0220m BCFD 8 Fish 4.324mg EC50 48 Agae or other aquatic plants 0.0217m NOEC 672 Fish 0.00000 LC50 56 Fish 0.000000 ENDPOINT TEST DURATION (HR) SPECIES VALUE LC50 72 Algae or other aquatic plants >.20m ENDPOINT TEST DURATION (HR) SPECIES VALUE Not Applicable <td>LCS0 96 Fish 0.06mgL EC50 96 Agae or other aquatic plants 3.7mgL BCF 24 Crustacea 0.000002mgL EC50 504 Crustacea 0.000002mgL NOEC 504 Crustacea 0.025mgL IC50 504 Crustacea 0.025mgL IC50 96 Fish 0.0279mgL EC50 48 Crustacea 0.025mgL EC50 48 Crustacea 0.025mgL EC50 48 Crustacea 0.027mgL BCFD 8 Fish 4.324mgL EC50 48 Agae or other aquatic plants 0.0200mgL IC50 96 Fish 541mgL IC50 72 Agae or other aquatic plants >20mgL IC50 72 Agae or other aquatic plants >20mgL IC50 72 Agae or other aquatic plants >20mgL IC50 72 Agae or other aquatic plants >2000007mgL</td>	LCS0 96 Fish 0.06mgL EC50 96 Agae or other aquatic plants 3.7mgL BCF 24 Crustacea 0.000002mgL EC50 504 Crustacea 0.000002mgL NOEC 504 Crustacea 0.025mgL IC50 504 Crustacea 0.025mgL IC50 96 Fish 0.0279mgL EC50 48 Crustacea 0.025mgL EC50 48 Crustacea 0.025mgL EC50 48 Crustacea 0.027mgL BCFD 8 Fish 4.324mgL EC50 48 Agae or other aquatic plants 0.0200mgL IC50 96 Fish 541mgL IC50 72 Agae or other aquatic plants >20mgL IC50 72 Agae or other aquatic plants >20mgL IC50 72 Agae or other aquatic plants >20mgL IC50 72 Agae or other aquatic plants >2000007mgL

water	Not Applicable		Not Applicable		Not Applicable No		Not Applicable Not		pplicable
water	ENDPOINT		TEST DURATION (HR)	SPECIE	S	VALUE		SOUR	RCE
	NOEC	NOEC 16			Crustacea		107mg/L	4	
nitric acid	ENDPOINT		TEST DURATION (HR)		SPECIES		VALUE	SO	URCE
	NOEC	336		Algae or other a	Algae or other aquatic plants		0.00075m	g/L	4
	EC50	120		Fish	Fish			g/L	5
	BCF	360		Algae or other aquatic plants			9mg/L		4
zinc	EC50	72		Algae or other aquatic plants			0.106mg/l	0.106mg/L	
	EC50	48		Crustacea	Crustacea		0.04mg/L		5
	LC50	96		Fish			0.00272m	g/L	4
	ENDPOINT	IES	T DURATION (HR)	SPECIES			VALUE		SOURCE

(Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Ecotoxicity:

The tolerance of water organisms towards pH margin and variation is diverse. Recommended pH values for test species listed in OECD guidelines are between 6.0 and almost 9. Acute testing with fish showed 96h-LC50 at about pH 3.5

Prevent, by any means available, spillage from entering drains or water courses. **DO NOT** discharge into sewer or waterways.

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Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
ammonium phosphate, monobasic	нідн	HIGH
water	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
ammonium phosphate, monobasic	LOW (LogKOW = -0.7699)
water	LOW (LogKOW = -1.38)

Mobility in soil

Ingredient	Mobility
ammonium phosphate, monobasic	HIGH (KOC = 1)
water	LOW (KOC = 14.3)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / Packaging disposal	 Recycle wherever possible. Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified. Treat and neutralise at an approved treatment plant. Treatment should involve: Neutralisation with soda-ash or soda-lime followed by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed apparatus (after admixture with suitable combustible material). Decontaminate empty containers with 5% aqueous sodium hydroxide or soda ash, followed by water. Observe all label safeguards until containers are cleaned and destroyed.
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SECTION 14 TRANSPORT INFORMATION

Labels Required



Marine Pollutant

Certified Reference Materials- Wheat Flour Solution

UN number	3264
UN proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s.
Transport hazard class(es)	Class8SubriskNot Applicable
Packing group	I
Environmental hazard	Not Applicable
Special precautions for user	Hazard Label8Special provisions386, B2, IB2, T11, TP2, TP27

Air transport (ICAO-IATA / DGR)

UN number	3264	3264							
UN proper shipping name	CORROSIVE LIQUID,	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.							
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	8 Not Applicable 8L							
Packing group	II	I							
Environmental hazard	Not Applicable	Not Applicable							
Special precautions for user	Passenger and Cargo Passenger and Cargo		A3A803 855 30 L 851 1 L Y840 0.5 L						

Sea transport (IMDG-Code / GGVSee)

UN number	3264
UN proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s. *
Transport hazard class(es)	IMDG Class8IMDG SubriskNot Applicable
Packing group	II Contraction of the second
Environmental hazard	Not Applicable
Special precautions for user	EMS NumberF-A, S-BSpecial provisions274Limited Quantities1 L

Transport in bulk according to Annex II of MARPOL and the IBC code

Source	Product name	Pollution Category	Ship Type
IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk	Nitric acid (70% and over) Nitric acid (less than 70%)	Y; Y	2 2

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

ALUMINIUM(7429-90-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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Certified Reference Materials- Wheat Flour Solution

- US Alaska Limits for Air Contaminants
- US California Permissible Exposure Limits for Chemical Contaminants
- US Hawaii Air Contaminant Limits
- US Massachusetts Right To Know Listed Chemicals
- US Michigan Exposure Limits for Air Contaminants
- US Minnesota Permissible Exposure Limits (PELs)
- US Oregon Permissible Exposure Limits (Z-1)
- US Pennsylvania Hazardous Substance List
- US Rhode Island Hazardous Substance List
- US Tennessee Occupational Exposure Limits Limits For Air Contaminants
- US Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants

ARSENIC(7440-38-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS

- International Agency for Research on Cancer (IARC) Agents Classified by the IARC Monographs
- US Alaska Limits for Air Contaminants
- US California OEHHA/ARB Acute Reference Exposure Levels and Target Organs (RELs) US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs
- (CRELs)
- US California Permissible Exposure Limits for Chemical Contaminants
- US Hawaii Air Contaminant Limits
- US Idaho Limits for Air Contaminants
- US Massachusetts Right To Know Listed Chemicals
- US Minnesota Permissible Exposure Limits (PELs)
- US New Jersey Right to Know Special Health Hazard Substance List (SHHSL): Carcinogens
- US Pennsylvania Hazardous Substance List
- US Tennessee Occupational Exposure Limits Limits For Air Contaminants
- US Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants
- US Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants

CALCIUM CARBONATE(471-34-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

- US Alaska Limits for Air Contaminants
- US California Permissible Exposure Limits for Chemical Contaminants
- US Hawaii Air Contaminant Limits
- US Idaho Limits for Air Contaminants
- US Massachusetts Right To Know Listed Chemicals
- US Michigan Exposure Limits for Air Contaminants
- US Minnesota Permissible Exposure Limits (PELs)
- US Oregon Permissible Exposure Limits (Z-1)
- US Pennsylvania Hazardous Substance List

CADMIUM(7440-43-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

US - Alaska Limits for Air Contaminants

US - California - Proposition 65 - Priority List for the Development of MADLs for Chemicals Causing Reproductive Toxicity

US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs (CRELs)

- US California Permissible Exposure Limits for Chemical Contaminants
- US California Proposition 65 Carcinogens
- US California Proposition 65 Maximum Allowable Dose Levels (MADLs) for Chemicals Causing Reproductive Toxicity
- US California Proposition 65 No Significant Risk Levels (NSRLs) for Carcinogens
- US California Proposition 65 Reproductive Toxicity
- US Hawaii Air Contaminant Limits
- US Idaho Acceptable Maximum Peak Concentrations
- US Idaho Limits for Air Contaminants
- US Massachusetts Right To Know Listed Chemicals
- US Michigan Exposure Limits for Air Contaminants
- US Minnesota Permissible Exposure Limits (PELs)
- US New Jersey Right to Know Special Health Hazard Substance List (SHHSL): Carcinogens
- US Oregon Permissible Exposure Limits (Z-1)
- US Oregon Permissible Exposure Limits (Z-2)
- US Pennsylvania Hazardous Substance List
- US Rhode Island Hazardous Substance List
- US Tennessee Occupational Exposure Limits Limits For Air Contaminants

CHROMIUM(7440-47-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS

US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants

- US Washington Permissible exposure limits of air contaminants
- US Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
- US ACGIH Threshold Limit Values (TLV)
- US ACGIH Threshold Limit Values (TLV) Carcinogens
- US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)
- US EPCRA Section 313 Chemical List
- US NIOSH Recommended Exposure Limits (RELs)
- US OSHA Permissible Exposure Levels (PELs) Table Z1
- US Toxic Substances Control Act (TSCA) Chemical Substance Inventory
- US Washington Permissible exposure limits of air contaminants
- US Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values
- US ACGIH Threshold Limit Values (TLV)
- US ACGIH Threshold Limit Values (TLV) Carcinogens
- US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)
- US Clean Air Act Hazardous Air Pollutants
- US CWA (Clean Water Act) Priority Pollutants

US CWA (Clean Water Act) - Toxic Pollutants

US EPCRA Section 313 Chemical List

US National Toxicology Program (NTP) 14th Report Part A Known to be Human Carcinogens US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Levels (PELs) - Table Z1

- US Toxic Substances Control Act (TSCA) Chemical Substance Inventory
- US Rhode Island Hazardous Substance List
- US Tennessee Occupational Exposure Limits Limits For Air Contaminants
- US Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contamina
- US Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air
- Contaminants
- US Washington Permissible exposure limits of air contaminants
- US Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants US NIOSH Recommended Exposure Limits (RELs)
- US OSHA Permissible Exposure Levels (PELs) Table Z1
- US Toxic Substances Control Act (TSCA) Chemical Substance Inventory
- US Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants
- US Washington Permissible exposure limits of air contaminants

US ACGIH Threshold Limit Values (TLV) - Carcinogens

US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)

US ACGIH Threshold Limit Values (TLV)

US Clean Air Act - Hazardous Air Pollutants

US CWA (Clean Water Act) - Priority Pollutants

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Levels (PELs) - Table Z1

US OSHA Permissible Exposure Levels (PELs) - Table Z2

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US CWA (Clean Water Act) - Toxic Pollutants

US EPCRA Section 313 Chemical List

US EPA Carcinogens Listing

US OSHA Carcinogens Listing

- US Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values
- US Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants
- US Wyoming Toxic and Hazardous Substances Table Z-2 Acceptable ceiling concentration, Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift

US National Toxicology Program (NTP) 14th Report Part A Known to be Human Carcinogens

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Certified Reference Materials- Wheat Flour Solution

- International Agency for Research on Cancer (IARC) Agents Classified by the IARC US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants Monographs US - Alaska Limits for Air Contaminants US - Washington Permissible exposure limits of air contaminants US - California Permissible Exposure Limits for Chemical Contaminants US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants US - Hawaii Air Contaminant Limits US ACGIH Threshold Limit Values (TLV) US ACGIH Threshold Limit Values (TLV) - Carcinogens US - Idaho - Limits for Air Contaminants US - Massachusetts - Right To Know Listed Chemicals US Clean Air Act - Hazardous Air Pollutants US CWA (Clean Water Act) - Priority Pollutants US - Michigan Exposure Limits for Air Contaminants US - Oregon Permissible Exposure Limits (Z-1) US CWA (Clean Water Act) - Toxic Pollutants US - Pennsylvania - Hazardous Substance List US EPCRA Section 313 Chemical List US NIOSH Recommended Exposure Limits (RELs) US - Rhode Island Hazardous Substance List US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants US OSHA Permissible Exposure Levels (PELs) - Table Z1 US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory COBALT(7440-48-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS International Agency for Research on Cancer (IARC) - Agents Classified by the IARC US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Monographs Contaminants US - Washington Permissible exposure limits of air contaminants US - Alaska Limits for Air Contaminants US - California Permissible Exposure Limits for Chemical Contaminants US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values US - California Proposition 65 - Carcinogens US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants US - Hawaii Air Contaminant Limits US ACGIH Threshold Limit Values (TLV) US - Idaho - Limits for Air Contaminants US ACGIH Threshold Limit Values (TLV) - Carcinogens US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs) US - Massachusetts - Right To Know Listed Chemicals US - Michigan Exposure Limits for Air Contaminants US Clean Air Act - Hazardous Air Pollutants US EPCRA Section 313 Chemical List US - Minnesota Permissible Exposure Limits (PELs) US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): US National Toxicology Program (NTP) 14th Report Part B. Carcinogens US NIOSH Recommended Exposure Limits (RELs) US - Oregon Permissible Exposure Limits (Z-1) US OSHA Permissible Exposure Levels (PELs) - Table Z1 US - Pennsylvania - Hazardous Substance List US Priority List for the Development of Proposition 65 Safe Harbor Levels - No Significant Risk US - Rhode Island Hazardous Substance List Levels (NSRLs) for Carcinogens and Maximum Allowable Dose Levels (MADLs) for Chemicals Causing Reproductive Toxicity US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants COPPER(7440-50-8) IS FOUND ON THE FOLLOWING REGULATORY LISTS US - Alaska Limits for Air Contaminants US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air US - California OEHHA/ARB - Acute Reference Exposure Levels and Target Organs (RELs) Contaminants US - Washington Permissible exposure limits of air contaminants US - California Permissible Exposure Limits for Chemical Contaminants US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values US - Hawaii Air Contaminant Limits US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants US - Idaho - Limits for Air Contaminants US - Massachusetts - Right To Know Listed Chemicals US ACGIH Threshold Limit Values (TLV) US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs) US - Michigan Exposure Limits for Air Contaminants US CWA (Clean Water Act) - Priority Pollutants US - Minnesota Permissible Exposure Limits (PELs) US - Oregon Permissible Exposure Limits (Z-1) US CWA (Clean Water Act) - Toxic Pollutants US EPA Carcinogens Listing US - Pennsylvania - Hazardous Substance List US EPCRA Section 313 Chemical List US - Rhode Island Hazardous Substance List US NIOSH Recommended Exposure Limits (RELs) US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants
- US Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants

IRON(7439-89-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

 $\ensuremath{\mathsf{US}}$ - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs

- (CRELs)
- US California Permissible Exposure Limits for Chemical Contaminants

US - Hawaii Air Contaminant Limits

US - Michigan Exposure Limits for Air Contaminants

LEAD(7439-92-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

US OSHA Permissible Exposure Levels (PELs) - Table Z1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US - Oregon Permissible Exposure Limits (Z-1)

US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants

US - Washington Permissible exposure limits of air contaminants

US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

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US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory	US - California OEHHA/ARB - Acute Reference Exposure Levels and Target Organs (RELs) US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs (CRELs) JS - California Permissible Exposure Limits for Chemical Contaminants JS - California Proposition 65 - Carcinogens JS - Idaho - Limits for Air Contaminants JS - Idaho - Limits for Air Contaminants JS - Massachusetts - Right To Know Listed Chemicals JS - Michigan Exposure Limits for Air Contaminants JS - Michigan Exposure Limits for Air Contaminants JS - Minnesota Permissible Exposure Limits (PELs) JS - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): Carcinogens JS - Oregon Permissible Exposure Limits (Z-1) JS - Pennsylvania - Hazardous Substance List JS - Rhode Island Hazardous Substance List	 US - Washington Permissible exposure limits of air contaminants US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants US ACGIH Threshold Limit Values (TLV) US ACGIH Threshold Limit Values (TLV) - Carcinogens US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs) US Clean Air Act - Hazardous Air Pollutants US CWA (Clean Water Act) - Priority Pollutants US CWA (Clean Water Act) - Toxic Pollutants US CWA (Clean Water Act) - Toxic Pollutants US EPCRA Section 313 Chemical List US NIOSH Recommended Exposure Limits (RELs) US OSHA Permissible Exposure Levels (PELs) - Table Z1 US Priority List for the Development of Proposition 65 Safe Harbor Levels - No Significant Risk Levels (NSRLs) for Carcinogens and Maximum Allowable Dose Levels (MADLs) for

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

POTASSIUM(7440-09-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS

International Air Transport Association (IATA) Dangerous Goods Regulations - Prohibited List US - Rhode Island Hazardous Substance List Passenger and Cargo Aircraft

US - Massachusetts - Right To Know Listed Chemicals

US - Pennsylvania - Hazardous Substance List

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

SELENIUM(7782-49-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Catalogue number: CRM-WF

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Certified Reference Materials- Wheat Flour Solution

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC US - Washington Permissible exposure limits of air contaminants Monographs US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values US - Alaska Limits for Air Contaminants US ACGIH Threshold Limit Values (TLV) US - California OEHHA/ARB - Acute Reference Exposure Levels and Target Organs (RELs) US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs) US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs US Clean Air Act - Hazardous Air Pollutants (CRELs) US CWA (Clean Water Act) - Priority Pollutants US - Hawaii Air Contaminant Limits US CWA (Clean Water Act) - Toxic Pollutants US - Idaho - Limits for Air Contaminants US EPA Carcinogens Listing US - Massachusetts - Right To Know Listed Chemicals US EPCRA Section 313 Chemical List US - Minnesota Permissible Exposure Limits (PELs) US NIOSH Recommended Exposure Limits (RELs) US - Pennsylvania - Hazardous Substance List US OSHA Permissible Exposure Levels (PELs) - Table Z1 US - Rhode Island Hazardous Substance List US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants SULFURIC ACID(7664-93-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS International Agency for Research on Cancer (IARC) - Agents Classified by the IARC US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants Monographs US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air International Air Transport Association (IATA) Dangerous Goods Regulations - Prohibited List Contaminants Passenger and Cargo Aircraft US - Washington Permissible exposure limits of air contaminants US - Alaska Limits for Air Contaminants US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values US - California OEHHA/ARB - Acute Reference Exposure Levels and Target Organs (RELs) US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs US ACGIH Threshold Limit Values (TLV) (CRELs) US ACGIH Threshold Limit Values (TLV) - Carcinogens US - California Permissible Exposure Limits for Chemical Contaminants US CWA (Clean Water Act) - List of Hazardous Substances US - Hawaii Air Contaminant Limits US Drug Enforcement Administration (DEA) List I and II Regulated Chemicals US - Idaho - Limits for Air Contaminants US EPCRA Section 313 Chemical List US - Massachusetts - Right To Know Listed Chemicals US National Toxicology Program (NTP) 14th Report Part A Known to be Human Carcinoger US - Michigan Exposure Limits for Air Contaminants US NIOSH Recommended Exposure Limits (RELs) US - Minnesota Permissible Exposure Limits (PELs) US OSHA Permissible Exposure Levels (PELs) - Table Z1 US - New Jersey Right to Know - Special Health Hazard Substance List (SHHSL): US SARA Section 302 Extremely Hazardous Substances Carcinogens US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US - Oregon Permissible Exposure Limits (Z-1) US - Rhode Island Hazardous Substance List US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants ZINC(7440-66-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS International Agency for Research on Cancer (IARC) - Agents Classified by the IARC US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants Monographs US - Washington Permissible exposure limits of air contaminants US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants (CRELs) US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs) US - California Permissible Exposure Limits for Chemical Contaminants US CWA (Clean Water Act) - Priority Pollutants US - Hawaii Air Contaminant Limits US CWA (Clean Water Act) - Toxic Pollutants US - Massachusetts - Right To Know Listed Chemicals US EPA Carcinogens Listing US - Michigan Exposure Limits for Air Contaminants US EPCRA Section 313 Chemical List US - Oregon Permissible Exposure Limits (Z-1) US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US - Pennsylvania - Hazardous Substance List US - Rhode Island Hazardous Substance List NITRIC ACID(7697-37-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS International Air Transport Association (IATA) Dangerous Goods Regulations - Prohibited List US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants Passenger and Cargo Aircraft US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air US - Alaska Limits for Air Contaminants Contaminants US - California OEHHA/ARB - Acute Reference Exposure Levels and Target Organs (RELs) US - Washington Permissible exposure limits of air contaminants US - California Permissible Exposure Limits for Chemical Contaminants US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values US - Hawaii Air Contaminant Limits US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants US - Idaho - Limits for Air Contaminants US ACGIH Threshold Limit Values (TLV) US CWA (Clean Water Act) - List of Hazardous Substances US - Massachusetts - Right To Know Listed Chemicals US EPCRA Section 313 Chemical List US - Michigan Exposure Limits for Air Contaminants US - Minnesota Permissible Exposure Limits (PELs) US NIOSH Recommended Exposure Limits (RELs) US - Oregon Permissible Exposure Limits (Z-1) US OSHA Permissible Exposure Levels (PELs) - Table Z1 US - Pennsylvania - Hazardous Substance List US SARA Section 302 Extremely Hazardous Substances US - Rhode Island Hazardous Substance List US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants WATER(7732-18-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS US - Pennsylvania - Hazardous Substance List US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SECTION 311/312 HAZARD CATEGORIES

 Immediate (acute) health hazard
 Yes

 Delayed (chronic) health hazard
 No

 Fire hazard
 No

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Certified Reference Materials- Wheat Flour Solution

Pressure hazard

Reactivity hazard

No

No

US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4)		
Name	Reportable Quantity in Pounds (lb)	Reportable Quantity in kg
Arsenic	1	0.454
Cadmium	10	4.54
Chromium	5000	2270
Copper	5000	2270
Lead	10	4.54
Nickel	100	45.4
Selenium	100	45.4
Sulfuric acid	1000	454
Zinc	1000	454
Nitric acid	1000	454

State Regulations

US. CALIFORNIA PROPOSITION 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm

US - CALIFORNIA PREPOSITION 65 - CARCINOGENS & REPRODUCTIVE TOXICITY (CRT): LISTED SUBSTANCE

Cadmium and cadmium compounds: Cadmium, Cobalt metal powder, Lead and lead compounds: Lead, Nickel (Metallic) Listed

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Y
Canada - NDSL	N (lead; zinc; potassium; magnesium; copper; ammonium phosphate, monobasic; water; selenium; aluminium; arsenic; cobalt; nickel; manganese(II) acetate tetrahydrate; sulfuric acid; iron; chromium; cadmium; nitric acid)
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	N (zinc; potassium; magnesium; copper; ammonium phosphate, monobasic; water; selenium; aluminium; arsenic; cobalt; nickel; manganese(II) acetate tetrahydrate; iron; chromium; cadmium; nitric acid)
Korea - KECI	Y
New Zealand - NZIoC	Υ
Philippines - PICCS	Υ
USA - TSCA	Υ
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 OTHER INFORMATION

Other information

Ingredients with multiple cas numbers

Name	CAS No
aluminium	7429-90-5, 91728-14-2
calcium carbonate	471-34-1, 13397-26-7, 15634-14-7, 1317-65-3, 72608-12-9, 878759-26-3, 63660-97-9, 459411-10-0, 198352-33-9, 146358-95-4
copper	7440-50-8, 133353-46-5, 133353-47-6, 195161-80-9, 65555-90-0, 72514-83-1

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chernwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure ${\sf Limit}_{\circ}$

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

Catalogue number: CRM-WF Version No: 1.1

Certified Reference Materials- Wheat Flour Solution

BEI: Biological Exposure Index

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