

## **IC-1 Solution A**

**High-Purity Standards** 

Chemwatch Hazard Alert Code: 0

Catalogue number: IC-1 Solution A Version No: 2.2

Issue Date: **08/26/2016**Print Date: **08/26/2016**S GHS USA FN

Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

## **SECTION 1 IDENTIFICATION**

#### **Product Identifier**

Product name	IC-1 Solution A
Synonyms	100µg/mL Bromide, Chloride, Fluoride, Nitrate, Phosphate, Sulfate in H2O
Other means of identification	IC-1 Solution A

#### 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 of the substance or mixture

Classification	Not Applicable

### Label elements

GHS label elements	Not Applicable
SIGNAL WORD	NOT APPLICABLE

## Hazard statement(s)

Not Applicable

### Hazard(s) not otherwise specified

Not Applicable

### Precautionary statement(s) Prevention

Not Applicable

### Precautionary statement(s) Response

Not Applicable

## Precautionary statement(s) Storage

Not Applicable

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### Precautionary statement(s) Disposal

Not Applicable

### **SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

#### Substances

See section below for composition of Mixtures

#### Mixtures

CAS No	%[weight]	Name
7647-15-6	0.01	sodium bromide
7647-14-5	0.01	sodium chloride
7681-49-4	0.01	sodium fluoride
7631-99-4	0.01	sodium nitrate
7722-76-1	0.01	ammonium phosphate, monobasic
7757-82-6	0.01	sodium sulfate
7732-18-5	balance	water

### **SECTION 4 FIRST-AID MEASURES**

### Description of first aid measures

Eye Contact	If this product comes in contact with eyes:  • Wash out immediately with water.  • If irritation continues, seek medical attention.  • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs:  ► Flush skin and hair with running water (and soap if available).  ► Seek medical attention in event of irritation.
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

## Most important symptoms and effects, both acute and delayed

See Section 11

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### **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	► Use water delivered as a fine spray to control fire and cool adjacent area.
Fire/Explosion Hazard	► Non combustible.

### **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	► Clean up all spills immediately.
Major Spills	► Clear area of personnel and move upwind.

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

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### **SECTION 7 HANDLING AND STORAGE**

### Precautions for safe handling

Safe handling	► Limit all unnecessary personal contact.
Other information	

### Conditions for safe storage, including any incompatibilities

conditions for safe storage, moraling any meetingatismites	
Suitable container	► Polyethylene or polypropylene container.
Storage incompatibility	Avoid contamination of water, foodstuffs, feed or seed. None known

### **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **Control parameters**

## OCCUPATIONAL EXPOSURE LIMITS (OEL)

## INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Levels (PELs) - Table Z1	sodium fluoride	Fluorides	2.5 mg/m3	Not Available	Not Available	as F)
US OSHA Permissible Exposure Levels (PELs) - Table Z2	sodium fluoride	Fluoride as dust	2.5 mg/m3	Not Available	Not Available	(Z37.28–1969)
US ACGIH Threshold Limit Values (TLV)	sodium fluoride	Fluorides, as F	2.5 mg/m3	Not Available	Not Available	TLV® Basis: Bone dam; fluorosis; BEI
US NIOSH Recommended Exposure Limits (RELs)	sodium fluoride	Floridine, Sodium monofluoride	2.5 mg/m3	Not Available	Not Available	[*Note: The REL also applies to other inorganic, solid fluorides (as F).]

#### **EMERGENCY LIMITS**

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
sodium bromide	Sodium bromide	0.3 mg/m3	3.3 mg/m3	690 mg/m3
sodium chloride	Chloride; (Chloride(1-); Chloride ions)	1 ppm	2.52 ppm	30 ppm
sodium chloride	Sodium chloride	11 mg/m3	120 mg/m3	1100 mg/m3
sodium fluoride	Sodium fluoride	5.5 mg/m3	5.5 mg/m3	1100 mg/m3
sodium nitrate	Sodium nitrate	12 mg/m3	130 mg/m3	250 mg/m3
ammonium phosphate, monobasic	Ammonium dihydrogen phosphate; (Monoammonium phosphate)	12 mg/m3	130 mg/m3	790 mg/m3
sodium sulfate	Sodium sulfate, anhydrous	11 mg/m3	130 mg/m3	650 mg/m3

Ingredient	Original IDLH	Revised IDLH
sodium bromide	Not Available	Not Available
sodium chloride	Not Available	Not Available
sodium fluoride	500 mg/m3	250 mg/m3
sodium nitrate	Not Available	Not Available
ammonium phosphate, monobasic	Not Available	Not Available
sodium sulfate	Not Available	Not Available
water	Not Available	Not Available

## Exposure controls

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.
Personal protection	
Eye and face protection	<ul> <li>▶ Safety glasses with side shields</li> <li>▶ Chemical goggles.</li> </ul>
Skin protection	See Hand protection below
Hands/feet protection	Wear general protective gloves, eg. light weight rubber gloves. The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer.
Body protection	See Other protection below
Other protection	No special equipment needed when handling small quantities.
Thermal hazards	Not Available

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### **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

### Information on basic physical and chemical properties

Appearance	colorless		
Appearance	Coloness		
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
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	Product is considered stable and hazardous polymerisation will not occur.
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

irormation on toxicologic				
Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models).			
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion".			
Skin Contact	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models).			
Eye	Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).			
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.			
	TOXICITY IRRITATION			
IC-1 Solution A	Not Available Not Available			
	TOXICITY		IRRITATION	
sodium bromide	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup>		Nil reported	
	Oral (rat) LD50: 2500 mg/kg <sup>[2]</sup>			
	TOXICITY	IRRITATION		
and Promodel and In-	Dermal (rabbit) LD50: >10000 mg/kg <sup>[1]</sup>	Eye (rabbit): 10 mg - moderate		
sodium chloride	Oral (rat) LD50: 3000 mg/kg <sup>[2]</sup>	Eye (rabbit):100 mg/24h - mo	Eye (rabbit):100 mg/24h - moderate	

Skin (rabbit): 500 mg/24h - mild

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	TOXICITY	IRRITATION		
sodium fluoride	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Eye (rabbit): 20 mg/2		g/24h-moderate	
	Oral (rat) LD50: >25-<2000 mg/kg> <sup>[1]</sup>			
	ТОХІСІТУ		IRRITATION	
sodium nitrate	dermal (rat) LD50: >5000 mg/kg <sup>[1]</sup>	Nil reported		
	Oral (rat) LD50: 1267 mg/kg <sup>[2]</sup>			
ammonium phosphate,	TOXICITY		IRRITATION	
monobasic	dermal (rat) LD50: >5000 mg/kg <sup>[1]</sup>		Not Available	
	Oral (rat) LD50: >1000 mg/kg <sup>[1]</sup>			
	TOXICITY		IRRITATION	
sodium sulfate	Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>		Nil reported	
	TOXICITY		IRRITATION	
water	Oral (rat) LD50: >90000 mg/kg <sup>[2]</sup>	Not Available		
SODIUM CHLORIDE  SODIUM FLUORIDE  SODIUM SULFATE	The material may cause skin irritation after prolonged or repeated exposscaling and thickening of the skin.  The substance is classified by IARC as Group 3:  NOT classifiable as to its carcinogenicity to humans.  for sodium sulfate:  Sulfate (and sodium) ions are important constituents of the mammalian (several grams/day expressed as sodium sulfate).	body and of natural foodstuffs and		
SODIUM BROMIDE & SODIUM CHLORIDE & SODIUM FLUORIDE &	Equivocal Tumorigen by RTECS criteria. Reproductive effector in mice.  Asthma-like symptoms may continue for months or even years after exposure to the material ceases.			
SODIUM NITRATE & AMMONIUM PHOSPHATE, MONOBASIC & SODIUM SULFATE	Asthma-like symptoms may continue for months or even years after exp	osure to the material ceases.		
SODIUM NITRATE & AMMONIUM PHOSPHATE, MONOBASIC & SODIUM	Asthma-like symptoms may continue for months or even years after exportant and the symptoms may continue for months or even years after exportant and the symptoms may be sufficiently as a symptom of the symptoms of the symptoms and the symptoms are symptoms.			
SODIUM NITRATE & AMMONIUM PHOSPHATE, MONOBASIC & SODIUM SULFATE SODIUM CHLORIDE &				
SODIUM NITRATE & AMMONIUM PHOSPHATE, MONOBASIC & SODIUM SULFATE SODIUM CHLORIDE & SODIUM FLUORIDE AMMONIUM PHOSPHATE, MONOBASIC & WATER	The material may produce moderate eye irritation leading to inflammation.  No significant acute toxicological data identified in literature search.	on.		
SODIUM NITRATE & AMMONIUM PHOSPHATE, MONOBASIC & SODIUM SULFATE SODIUM CHLORIDE & SODIUM FLUORIDE AMMONIUM PHOSPHATE,	The material may produce moderate eye irritation leading to inflammation			
SODIUM NITRATE & AMMONIUM PHOSPHATE, MONOBASIC & SODIUM SULFATE SODIUM CHLORIDE & SODIUM FLUORIDE AMMONIUM PHOSPHATE, MONOBASIC & WATER  Acute Toxicity	The material may produce moderate eye irritation leading to inflammation.  No significant acute toxicological data identified in literature search.	Carcinogenicity		
SODIUM NITRATE & AMMONIUM PHOSPHATE, MONOBASIC & SODIUM SULFATE SODIUM CHLORIDE & SODIUM FLUORIDE AMMONIUM PHOSPHATE, MONOBASIC & WATER  Acute Toxicity Skin Irritation/Corrosion Serious Eye	The material may produce moderate eye irritation leading to inflammation.  No significant acute toxicological data identified in literature search.	Carcinogenicity Reproductivity		

Legend: X − Data available but does not fill the criteria for classification
✓ − Data required to make classification available

O – Data Not Available to make classification

## **SECTION 12 ECOLOGICAL INFORMATION**

### Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
sodium bromide	LC50	96	Fish	0.19mg/L	4
sodium bromide	EC50	48	Crustacea	0.000067mg/L	5
sodium bromide	EC50	72	Algae or other aquatic plants	>400mg/L	2
sodium bromide	BCF	144	Crustacea	53.11mg/L	4
sodium bromide	EC50	48	Crustacea	0.000076mg/L	5
sodium bromide	NOEC	384	Crustacea	2.8mg/L	2

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sodium chloride	LC50	96	Fish	620.199mg/L	3
sodium chloride	EC50	48	Crustacea	402.6mg/L	4
sodium chloride	EC50	96	Algae or other aquatic plants	2430mg/L	4
sodium chloride	EC50	384	Crustacea	140.582mg/L	3
sodium chloride	NOEC	6	Fish	0.001mg/L	4
sodium fluoride	LC50	96	Fish	51mg/L	2
sodium fluoride	EC50	48	Crustacea	58mg/L	4
sodium fluoride	EC50	96	Algae or other aquatic plants	43mg/L	2
sodium fluoride	BCF	240	Fish	5mg/L	4
sodium fluoride	EC10	24	Crustacea	0.2921000mg/L	4
sodium fluoride	NOEC	504	Crustacea	3.7mg/L	2
sodium nitrate	LC50	96	Fish	>98.9mg/L	2
sodium nitrate	EC50	48	Crustacea	3581mg/L	2
sodium nitrate	EC50	96	Algae or other aquatic plants	1181.887mg/L	3
sodium nitrate	EC50	384	Crustacea	49.116mg/L	3
sodium nitrate	NOEC	2880	Fish	1.6mg/L	4
ammonium phosphate, monobasic	LC50	96	Fish	>85.9mg/L	2
ammonium phosphate, monobasic	EC50	72	Algae or other aquatic plants	>97.1mg/L	2
ammonium phosphate, monobasic	EC50	72	Algae or other aquatic plants	>97.1mg/L	2
ammonium phosphate, monobasic	NOEC	72	Algae or other aquatic plants	3.57mg/L	2
sodium sulfate	LC50	96	Fish	ca.56mg/L	2
sodium sulfate	EC50	48	Crustacea	2564mg/L	2
sodium sulfate	EC50	96	Algae or other aquatic plants	105.72278mg/L	3
sodium sulfate	EC0	360	Algae or other aquatic plants	4mg/L	1
sodium sulfate	NOEC	168	Fish	<220mg/L	4
water	LC50	96	Fish	897.520mg/L	3
water	EC50	96	Algae or other aquatic plants	8768.874mg/L	3
water	EC50	384	Crustacea	199.179mg/L	3

For Fluorides: Small amounts of fluoride have beneficial effects however; excessive intake over long periods may cause dental and/or skeletal fluorosis.

### Persistence and degradability

,			
Ingredient	Persistence: Water/Soil	Persistence: Air	
sodium bromide	HIGH	HIGH	
sodium chloride	LOW	LOW	
sodium fluoride	LOW	LOW	
sodium nitrate	LOW	LOW	
ammonium phosphate, monobasic	нівн	HIGH	
sodium sulfate	HIGH	HIGH	
water	LOW	LOW	

### Bioaccumulative potential

Ingredient	Bioaccumulation
sodium bromide	LOW (LogKOW = -0.3713)
sodium chloride	LOW (LogKOW = 0.5392)
sodium fluoride	LOW (BCF = 6.4)
sodium nitrate	LOW (LogKOW = 0.209)
ammonium phosphate, monobasic	LOW (LogKOW = -0.7699)
sodium sulfate	LOW (LogKOW = -2.2002)
water	LOW (LogKOW = -1.38)

## Mobility in soil

Ingredient	Mobility
sodium bromide	LOW (KOC = 14.3)

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sodium chloride	LOW (KOC = 14.3)
sodium fluoride	LOW (KOC = 14.3)
sodium nitrate	LOW (KOC = 14.3)
ammonium phosphate, monobasic	HIGH (KOC = 1)
sodium sulfate	LOW (KOC = 6.124)
water	LOW (KOC = 14.3)

#### **SECTION 13 DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

Product / Packaging disposal Legislation addressing waste disposal requirements may differ by country, state and/ or territory.

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains
- ► Recycle wherever possible.

### **SECTION 14 TRANSPORT INFORMATION**

#### **Labels Required**

Marine Pollutant

Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

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

Not Applicable

#### **SECTION 15 REGULATORY INFORMATION**

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

### SODIUM BROMIDE(7647-15-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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

#### SODIUM CHLORIDE(7647-14-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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

## $\parallel$ SODIUM FLUORIDE(7681-49-4) 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

US - California Permissible Exposure Limits for Chemical Contaminants

US - Hawaii Air Contaminant Limits

US - Idaho - Limits for Air Contaminants

US EPCRA Section 313 Chemical List

US - Michigan Exposure Limits for Air Contaminants US - Minnesota Permissible Exposure Limits (PELs)

US - Oregon Permissible Exposure Limits (Z-1)

US - Oregon Permissible Exposure Limits (Z-2)

US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants

US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants SODIUM NITRATE(7631-99-4) 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 - 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 ACGIH Threshold Limit Values (TLV)

US ACGIH Threshold Limit Values (TLV) - Carcinogens

US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)

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 Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

# AMMONIUM PHOSPHATE, MONOBASIC(7722-76-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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

## SODIUM SULFATE(7757-82-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

US - California OEHHA/ARB - Acute Reference Exposure Levels and Target Organs (RELs)

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values

## WATER(7732-18-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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

## **Federal Regulations**

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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### SECTION 311/312 HAZARD CATEGORIES

Immediate (acute) health hazard	No
Delayed (chronic) health hazard	No
Fire hazard	No
Pressure hazard	No
Reactivity hazard	No

### US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4)

Name	Reportable Quantity in Pounds (lb)	Reportable Quantity in kg
Sodium fluoride	1000	454

#### **State Regulations**

#### US. CALIFORNIA PROPOSITION 65

None Reported

National Inventory	Status
Australia - AICS	Υ
Canada - DSL	Υ
Canada - NDSL	N (sodium bromide; ammonium phosphate, monobasic; water; sodium fluoride; sodium sulfate; sodium nitrate; sodium chloride)
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Υ
Japan - ENCS	N (water)
Korea - KECI	Υ
New Zealand - NZIoC	Y
Philippines - PICCS	Y
USA - TSCA	Y
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
sodium chloride	7647-14-5, 14762-51-7, 16887-00-6
sodium sulfate	7757-82-6, 15124-09-1, 1337-28-6

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

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment.

### **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 Limit。

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

BEI: Biological Exposure Index

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