

## **IC-2 Solution B**

#### **High-Purity Standards**

Catalogue number: IC-2 Solution B

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

#### Chemwatch Hazard Alert Code: 0

Issue Date: 08/19/2016 Print Date: 08/26/2016 S.GHS.USA.EN

## SECTION 1 IDENTIFICATION

## **Product Identifier**

Product name	IC-2 Solution B
Synonyms	IC-2-B
Other means of identification	IC-2 Solution B

#### 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

0 ,1	
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

## Page 2 of 6

#### 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
7632-00-0	0.1	sodium nitrite
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: <ul> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
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	<ul> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> </ul>	
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.

## SECTION 7 HANDLING AND STORAGE

# Precautions for safe handling Safe handling Limit all unnecessary personal contact. Other information

#### Page 3 of 6

**IC-2 Solution B** 

## Conditions for safe storage, including any incompatibilities

Suitable container	
Storage incompatibility	

Polyethylene or polypropylene container.

Avoid contamination of water, foodstuffs, feed or seed.
None known

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

## **Control parameters**

#### OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Not Available

#### EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
sodium nitrite	Sodium nitrite	2.3 mg/m3	26 mg/m3	280 mg/m3
Ingredient	Original IDLH		Revised IDLH	
sodium nitrite	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		

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Appearance	colorless		
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

## Page 4 of 6

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

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 <b>NOT</b> been classified by EC Directives or other classification s	systems a	as "harmful by ingestion	n".
Skin Contact	The material is not thought to produce adverse health effects or skin irritation for	llowing c	contact (as classified by	YEC Directives using animal models).
Eye	Although the liquid is not thought to be an irritant (as classified by EC Directives by tearing or conjunctival redness (as with windburn).	s), direct o	contact with the eye m	ay produce transient discomfort characterised
Chronic	Long-term exposure to the product is not thought to produce chronic effects adv nevertheless exposure by all routes should be minimised as a matter of course.	verse to th	he health (as classified	by EC Directives using animal models);
	TOXICITY	IRRITA	TION	
IC-2 Solution B	Not Available	Not Ava	Not Available	
			-	
	TOXICITY		IRRITATION	
sodium nitrite	Inhalation (rat) LC50: 0.0055 mg/L/4hr <sup>[2]</sup> Eye (rabbit): 500 mg		24hr - mild	
	Oral (rat) LD50: 157.9 mg/kg <sup>[2]</sup>			
water	TOXICITY		IRRITATION	
	Oral (rat) LD50: >90000 mg/kg <sup>[2]</sup>			Not Available
	,,,,,,,			
Legend:	<ol> <li>Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. extracted from RTECS - Register of Toxic Effect of chemical Substances</li> </ol>	* Value o	btained from manufact	turer's SDS. Unless otherwise specified data

SODIUM NITRITE	The material may be irritating to the eye, with prolonged contact causing inflammation. Tumorigenic - Carcinogenic by RTECS criteria.		
WATER	No significant acute toxicological data identified in literature s	search.	
Acute Toxicity	$\otimes$	Carcinogenicity	$\otimes$
Skin Irritation/Corrosion	0	Reproductivity	0
Serious Eye Damage/Irritation	0	STOT - Single Exposure	0
Respiratory or Skin sensitisation	$\otimes$	STOT - Repeated Exposure	0
Mutagenicity	$\odot$	Aspiration Hazard	0
		Legend: 🗙	<ul> <li>Data available but does not fill the criteria for classification</li> </ul>

Data required to make classification available

🚫 – Data Not Available to make classification

## SECTION 12 ECOLOGICAL INFORMATION

Toxicity					
Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
sodium nitrite	LC50	96	Fish	0.048mg/L	4
sodium nitrite	EC50	48	Crustacea	ca.12.5100mg/L	1
sodium nitrite	EC50	96	Algae or other aquatic plants	12.537mg/L	3
sodium nitrite	EC50	216	Crustacea	1.8mg/L	4
sodium nitrite	NOEC	2	Fish	0.02mg/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

Catalogue number: IC-2 Solution B Version No: 1.1		Page 5 of 6 IC-2 Solution B		Issue Date: <b>08/19/2016</b> Print Date: <b>08/26/2016</b>
Legend:	Aquatic Toxicity Data (Estimated) 4.	ata 2. Europe ECHA Registered Substances - Ecotoxicologic US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETO an) - Bioconcentration Data 8. Vendor Data	,	5
Persistence and de	gradability			

Ingredient	Persistence: Water/Soil	Persistence: Air
sodium nitrite	LOW	LOW
water	LOW	LOW

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation
sodium nitrite	LOW (LogKOW = 0.0564)
water	LOW (LogKOW = -1.38)

#### Mobility in soil

Ingredient	Mobility
sodium nitrite	LOW (KOC = 23.74)
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 NO

#### 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

Source	Product name	Pollution Category	Ship Type
IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk	Sodium nitrite solution	Y	2

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

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

## SODIUM NITRITE(7632-00-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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

US EPCRA Section 313 Chemical List

#### 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)

## SECTION 311/312 HAZARD CATEGORIES

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

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

Reportable Quantity in Pounds (lb)

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

Catalogue number: IC-2 Solution B Version No: 1.1		Page 6 of 6	Issue Date: 08/19/2016
		IC-2 Solution B	Print Date: 08/26/2016
Sodium nitrite	100	45.4	
State Regulations			
US. CALIFORNIA PROPOSITI	ON 65		
National Inventory	Status		
Australia - AICS	Y		
Canada - DSL	Y		
Canada - NDSL	N (water; sodium nitrite)		
China - IECSC	Y		
Europe - EINEC / ELINCS / NLP	Y		
Japan - ENCS	N (water)		
Korea - KECI	Y		
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 lis	ting(see specific ingredients in brackets)

## **SECTION 16 OTHER INFORMATION**

#### Other information

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.

#### 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<sub>o</sub> 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 This document is copyright.