



ISOGARD PLUS NT

HMIS		NFPA	Personal protective equipment			
Health	3	3				
Fire Hazard	0	0				
Reactivity	0	0				

Version Number: 1

Preparation date: 2004-09-27

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: ISOGARD PLUS NT

MSDS #: 00325_HX

Product code: 00325470, 11612200

Recommended use: Boiler Water Treatment.

Manufacturer, importer, supplier:

JohnsonDiversey, Inc.	Canadian Headquarters
3630 E. Kemper Rd.	JohnsonDiversey - Canada, Inc.
Cincinnati, OH 45241	2401 Bristol Circle
Phone: 1-800-438-2647	Oakville, Ontario L6H 6P1
	Phone: 1-800-668-3131

Emergency telephone number: 1-800-851-7145 (Prosar); 1-651-917-6133 (Int'l Prosar); 01-800-710-3400 (México)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER. CAUSES EYE AND SKIN BURNS . HARMFUL OR FATAL IF SWALLOWED. Do not mix with amines; nitrosamines may be formed . Nitrosamines are potentially carcinogenic . May cause respiratory tract irritation .

Principle routes of exposure:	Eyes. Skin. Inhalation. Ingestion.
Skin contact:	Corrosive. May cause permanent damage.
Eye contact:	Corrosive. Causes permanent eye damage, including blindness.
Inhalation:	May cause irritation and corrosive effects to nose, throat and respiratory tract.
Ingestion:	Corrosive. Causes burns to mouth, throat and stomach. Ingestion of large amounts may cause poisoning. Symptoms include: methemoglobinemia, cyanosis (blue skin), marked fall in blood pressure, leading to collapse, coma and possibly death.

3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS

Ingredient	CAS #	Weight %	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium nitrite	7632-00-0	20 - 30%	180 mg/kg (rat)	Not available	5.5 mg/m ³ (rat)
Potassium hydroxide	1310-58-3	1 - 5%	273 mg/kg (rat)	Not available	Not available

4. FIRST AID MEASURES

Eye contact:	Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention immediately.
Skin contact:	Flush immediately with plenty of water for at least 15 minutes. Get medical attention immediately.
Inhalation:	If breathing is affected, remove to fresh air. Get medical attention immediately.
Ingestion:	Do not induce vomiting. Immediately drink one cupful of water or milk. Never give anything by mouth to an unconscious person. Immediately get medical attention.
Notes to physician:	Sodium nitrite forms methemoglobin in the blood stream. Treat accordingly .
Aggravated Medical Conditions:	Persons with pre-existing skin disorders may be more susceptible to irritating effects

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Dry chemical, water spray, foam, carbon dioxide.
Specific hazards: Not applicable
Unusual hazards: Corrosive material (See sections 8 and 10).
Specific methods: No special methods required

Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

Extinguishing media which must not be used for safety reasons: No information available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment
Environmental precautions and clean-up methods: Clean-up methods - large spillage. Prevent product from entering drains. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Sweep up and shovel into suitable containers for disposal. Use a water rinse for final clean-up.

7. HANDLING AND STORAGE

Handling:

Avoid contact with skin, eyes and clothing. Do not taste or swallow. Avoid breathing vapors or mists. Use only with adequate ventilation. Remove and wash contaminated clothing and footwear before re-use. Wash thoroughly after handling. Product residue may remain on/in empty containers. All precautions for handling the product must be used in handling the empty container and residue. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

Storage:

Keep tightly closed in a dry, cool and well-ventilated place. Protect from freezing. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:

Good general ventilation should be sufficient to control airborne levels. Respiratory protection is not required if good ventilation is maintained.

Personal Protective Equipment

Eye protection: Chemical splash goggles.
Hand protection: Chemical resistant gloves. Includes neoprene gloves.
Skin and body protection: If major exposure is possible, wear suitable protective clothing and footwear.
Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.
Hygiene measures: Handle in accordance with good industrial hygiene and safety practice

Ingredient	CAS #	ACGIH	OSHA	Mexico
Potassium hydroxide	1310-58-3	2 mg/m ³ (Ceiling)	2 mg/m ³ (CEILING)	

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid	Appearance: Aqueous solution
Color: Blue	Boiling point/range: Not determined
Odor: Odorless	Melting point/range: Not determined
Specific gravity: 1.200	pH: No information available
Dilution pH: 11.65 (1%)	Density: No information available
Bulk density: No information available	Decomposition temperature: Not determined
Vapor density: No information available	Autoignition temperature: No information available
Evaporation rate: No information available	Solubility: Soluble
Solubility in other solvents: No information available	VOC: 0
Viscosity: No information available	Flash point: >200 (°F) >100 (°C)
Partition coefficient (n-octanol/water): No information available	

10. STABILITY AND REACTIVITY

Stability: The product is stable
Polymerization: Hazardous polymerisation does not occur
Hazardous decomposition products: None reasonably foreseeable
Materials to avoid: Incompatible with acids. Strong oxidising agents.
Conditions to avoid: Stable at normal conditions.

11. TOXICOLOGICAL INFORMATION

Acute toxicity
Component Information: Corrosive, LD50 estimated to be between 400 - 2000 mg/kg. See Section 3
Chronic toxicity: None known

Specific effects

Carcinogenic effects: None known
Mutagenic effects: None known
Reproductive toxicity: None known
Target organ effects: None known

12. ECOLOGICAL INFORMATION

Environmental Information: When used for its intended purpose this product should not cause adverse effects in the environment

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:

Undiluted product is regulated under environmental and transportation laws as a corrosive waste . Dispose of according to all federal, state and local applicable regulations .

RCRA Hazard Class: D002

14. TRANSPORT INFORMATION

DOT/TDG: Please refer to the Bill of Lading/receiving documents for up to date shipping information

15. REGULATORY INFORMATION

International Inventories

All components of this product are listed on the following inventories: U.S.A. (TSCA), Canada (DSL/NDSL), Australia (AICS), Korea (ECL), Japan (ENCS), Philippines (PICCS), China (IECSC).

U.S. Regulations

California Proposition 65: This product is not subject to the reporting requirements under California's Proposition 65

STATE RIGHT TO KNOW

Ingredient	CAS #	MARTK:	NJRTK:	PARTK:	RIRTK:	ILRTK:	CTRTK:
Sodium nitrite	7632-00-0	Listed	Listed	Listed	-	Listed	Listed
Potassium hydroxide	1310-58-3	Listed	Listed	Listed	Listed	Listed	Listed
Water	7732-18-5	-	-	-	-	-	-

CERCLA / SARA

Ingredient	CAS #	Weight %	RQ	Section 302/TPQs	Section 313
Sodium nitrite	7632-00-0	20 - 30%	100 LBS		Listed.
Potassium hydroxide	1310-58-3	1 - 5%	1000 LBS		

CAA HAP/CAA ODS/CWA Priority Pollutants: None

SARA 311/312 Hazard Categories

Immediate: Y
Delayed: N
Fire: N
Reactivity: N
Sudden Release of Pressure: N

Canada

WHMIS hazard class: E Corrosive material , D2B Toxic materials .



Ingredient	CAS #	NPRI
Sodium nitrite	7632-00-0	Listed

16. OTHER INFORMATION

Reason for revision: Not applicable
Prepared by: NAPRAC
Additional advice: None

Notice to Reader: This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained within. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.