



Material Safety Data Sheet

WHMIS (Pictograms)	WHMIS (Classification)	Personal protective equipment
	Class D-2A: Material causing other toxic effects (Very toxic).	

Section 1. Product and Company Identification

Product name / Trade name	OAT HD ELC 50/50 from 995 MN 8XSC	Associated Product's Item Code	WIP-16900-8X50B
Synonym	Not available.	CAS #	Not applicable.
Chemical family	Not available.	Validation date	5/3/2012.
Chemical formula	Not applicable.	Print date	5/3/2012.
Manufacturer/Supplier	Recochem Inc. 850 Montee de Liesse Montreal, Quebec H4T 1P4 (514) 341-3550 www.recochem.com	In case of emergency	Recochem Inc. Communications and Regulatory Affairs Department (905) 878-5544
Material uses	Not available.		

Section 2. Hazards identification

Emergency Overview	<p>WARNING!</p> <p>HARMFUL IF INHALED. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA. SUSPECT CANCER HAZARD - CONTAINS MATERIAL WHICH MAY CAUSE CANCER.</p> <p>Harmful by inhalation. Avoid exposure - obtain special instructions before use. Do not breathe vapor or mist. Avoid contact with eyes, skin and clothing. Contains material that may cause target organ damage, based on animal data. Contains material which may cause cancer. Risk of cancer depends on duration and level of exposure. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use.</p>
Potential Acute Health Effects	<p>See section 11 for more detailed information on health effects and symptoms.</p> <p>Extremely hazardous by the following route of exposure: of ingestion. Slightly hazardous by the following route of exposure: of inhalation.</p>
Note to Physician	Not available.

Section 3. Composition, information on ingredients

Canada		
Name	CAS number	Conc. (% w/w)
Ethylene glycol	107-21-1	46.75 - 55
Sodium Benzoate	532-32-1	0.15 - 0.7
Sodium tolyltriazole	64665-57-2	0.05 - 0.5
Sodium nitrite	7632-00-0	0.05 - 0.5

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There are no other ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Section 4. First aid measures

Eye contact	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 30 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
Skin contact	In case of contact, immediately flush skin with plenty of water for at least 30 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
Inhalation	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
Ingestion	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Notes to physician	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Section 5. Fire-fighting measures

Products of combustion	Decomposition products may include the following materials: carbon dioxide carbon monoxide
Fire-fighting media and instructions	Use an extinguishing agent suitable for the surrounding fire.
Fire Hazards	Not available.
Explosion Hazards	Not available.

Section 6. Accidental release measures

Small spill and leak	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill and leak	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

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**Section 7. Handling and Storage**

Handling Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Engineering controls Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Personal protection

Eyes Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Body Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

United States**Product name**

Ethylene glycol

Exposure limits**OSHA PEL 1989 (United States, 3/1989).**

CEIL: 50 ppm

CEIL: 125 mg/m³**ACGIH TLV (United States, 1/2008).**C: 100 mg/m³ Form: Aerosol**Occupational exposure limits**

Ingredient	List name	TWA (8 hours)			STEL (15 mins)			Ceiling			Notations
		ppm	mg/m ³	Other	ppm	mg/m ³	Other	ppm	mg/m ³	Other	

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Ethylene glycol	US ACGIH 1/2008	-	-	-	-	-	-	-	100	-	[a]
	AB 6/2008	-	-	-	-	-	-	-	100	-	[b]
	BC 1/2012	-	-	-	-	-	-	-	100	-	[a]
	BC 6/2008	-	10	-	-	20	-	-	-	-	[c]
	BC 1/2012	-	-	-	-	-	-	50	-	-	[d]
	ON 6/2008	-	-	-	-	-	-	-	100	-	[e]
	QC 1/2012	-	-	-	-	-	-	50	127	-	[e]

Form: [a]Aerosol [b]aerosol [c]Particulate [d]Vapour [e]vapour and mist

Section 9. Physical and chemical properties

Physical State and Appearance	Liquid. [Fully transparent, clear red liquid]	Odour	Not available.
Molecular weight	Not applicable.	Taste	Not available.
pH	7.8 to 8.6	Colour	Not available.
Boiling/condensation point	Not available.	Volatility	Not available.
Melting/freezing point	-37°C (-34.6°F)	Evaporation rate	Not available.
Relative density	Not available.	Odour Threshold	Not available.
Vapor pressure	Not available.	Viscosity	Not available.
Vapour Density	Not available.	Solubility	Soluble in the following materials: cold water, methanol and diethyl ether.
VOC content	51.2 % (w/w)	Other Properties	Not available.

The product is: May be combustible at high temperature.

Auto-ignition temperature Not available.

Flash point Not available.

Flammable limits Not available.

Fire hazards in the presence of various substances Non-flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts.

Section 10. Stability and reactivity

Stability The product is stable.

Conditions of instability Not available.

Incompatibility with various substances Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis.

Hazardous decomposition products Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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**Section 11. Toxicological Information****Canada****Acute toxicity**

Ethylene glycol	LC50 Inhalation Dusts and mists	Rat	2725 mg/m ³	4 hours
	LD50 Dermal	Rabbit	9500 mg/kg	-
	LD50 Dermal	Rabbit	9500 mg/kg	-
	LD50 Dermal	Rabbit	9530 uL/kg	-
	LD50 Intraperitoneal	Mouse	5614 mg/kg	-
	LD50 Intraperitoneal	Rat	5010 mg/kg	-
	LD50 Intravenous	Rat	3260 mg/kg	-
	LD50 Oral	Cat	1650 mg/kg	-
	LD50 Oral	Dog	5500 mg/kg	-
	LD50 Oral	Mouse	5500 mg/kg	-
	LD50 Oral	Rat	4000 mg/kg	-
	LD50 Oral	Rat	4700 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
	LD50 Subcutaneous	Rat	2800 mg/kg	-
	LD50 Unreported	Mouse	8050 mg/kg	-
	LD50 Unreported	Rabbit	5017 mg/kg	-
	LD50 Unreported	Rat	13 g/kg	-
Sodium Benzoate	LD50 Oral	Rat	4070 mg/kg	-
	LD50 Oral	Rat	4070 mg/kg	-
Sodium tolyltriazole	LD50 Oral	Rat - Female	640 mg/kg	-
Sodium nitrite	LD50 Oral	Rat	85 mg/kg	-
Conclusion/Summary	Not available.			

Chronic toxicity**Conclusion/Summary** : Not available.**Carcinogenicity****Conclusion/Summary** : Not available.**Classification**

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Ethylene glycol	A4	-	-	-	-	-
Sodium nitrite	-	2A	-	-	-	-

Mutagenicity**Conclusion/Summary** : Not available.**Teratogenicity****Conclusion/Summary** : Not available.**Reproductive Toxicity****Conclusion/Summary** : Not available.*Continued on next page*

**Section 12. Ecological information**

For accidental discharges into the environment, see Section 6: "Accidental Release Measures" for suggested instructions.

Ecotoxicity : No known significant effects or critical hazards.

Canada**Aquatic ecotoxicity**

Product/ingredient name	Result	Species	Exposure
Ethylene glycol	Acute EC50 >100 mg/L	Daphnia	4 hours
	Acute EC50 >100 mg/L	Daphnia	4 hours
	Acute IC50 >100 mg/L	Algae	1 hours
	Acute IC50 >100 mg/L	Algae	1 hours
	Acute LC50 >100000 ug/L Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 6900000 to 8800000 ug/L Fresh water	Daphnia - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 >100 mg/L	Fish	24 hours
	Acute LC50 >100 mg/L	Fish	24 hours
	Acute LC50 8050000 ug/L Fresh water	Fish - Pimephales promelas - <=7 days	96 hours
	Chronic NOEC 11610000 ug/L Fresh water	Daphnia - Ceriodaphnia dubia - <=24 hours	48 hours
Sodium Benzoate	Chronic NOEC 6090000 ug/L Fresh water	Fish - Pimephales promelas - <=7 days	96 hours
	Acute LC50 >100000 ug/L Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) - 0.2 to 0.5 g	96 hours
Sodium nitrite	Acute LC50 1100 ug/L Fresh water	Crustaceans - Cherax quadricarinatus - 0.1 to 0.14 g	48 hours
	Acute LC50 48 ug/L Fresh water	Fish - Ictalurus punctatus - Fingerling - 50 to 76 mm	96 hours
	Chronic NOEC 0.02 mg/L Fresh water	Fish - Labeo rohita - Fingerling	96 hours

Conclusion/Summary : Not available.

Biodegradability

Conclusion/Summary : Not available.

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**Section 13. Disposal considerations**

Waste information The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14. Transport information**Canada TDG Classification**

Class Not available.

Subsidiary class -

Proper Shipping Name (Canada) TDG Not available.

UN number Not available.

Packing Group -

Special provisions Not available.

IMDG Classification

Class Not available.

Subsidiary class -

Proper Shipping Name IMDG Not available.

UN number Not available.

Packing Group -

Marine pollutant Not a pollutant.

Special provisions -

United States DOT (Classification)

Class Not available.

Subsidiary class -

Proper Shipping Name (United States) DOT Not available.

UN number Not available.

Packing Group -

Special provisions Not available.

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International Air Transport Association (IATA) For air shipment classification and associated regulations, please refer to the latest edition of IATA Dangerous Goods Regulations.

Section 15. Regulatory information

WHMIS Classification (Canada) Class D-2A: Material causing other toxic effects (Very toxic).

Canada Domestic Substances List (DSL) Status Not determined.

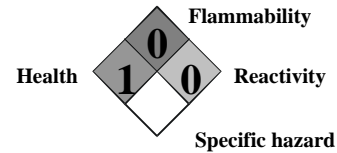
HCS Classification (U.S.A.) Toxic material
Carcinogen
Target organ effects

U.S.A. Regulatory Lists TSCA 5(a)2 final significant rules Sodium nitrite
United States inventory (TSCA 8b): Not determined.
TSCA 8(d) H and S data reporting: Sodium nitrite: 1991
TSCA 12(b) annual export notification: Sodium nitrite

Hazardous Material Information System (U.S.A.)

Health	1
Flammability	0
Reactivity	0
Personal protection	

National Fire Protection Association (U.S.A.)



Section 16. Other information

Validated and verified by Compliance and Technical Information Manager on 5/3/2012 ph.# 905-878-5544.

Printed 5/3/2012.

Notice to reader





To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

MSDS are available at www.recochem.com



Material Safety Data Sheet

WHMIS (Pictograms)	WHMIS (Classification)	Personal protective equipment
 	Class D-2A: Material causing other toxic effects (Very toxic).	 

Section 1. Product and Company Identification

Product name / Trade name	Shell HD Ultra ELC-N Coolant Concentrate from 995MN 8XSC	Associated Product's Item Code	WIP-16900FC-8X
Synonym	Not available.	CAS #	Not applicable.
Chemical family	Not available.	Validation date	5/3/2012.
Chemical formula	Not applicable.	Print date	5/3/2012.
Manufacturer/Supplier	Recochem Inc. 850 Montee de Liesse Montreal, Quebec H4T 1P4 (514) 341-3550 www.recochem.com	In case of emergency	Recochem Inc. Communications and Regulatory Affairs Department (905) 878-5544
Material uses	Not available.		

Section 2. Hazards identification

Emergency Overview	WARNING! HARMFUL IF INHALED. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA. SUSPECT CANCER HAZARD - CONTAINS MATERIAL WHICH MAY CAUSE CANCER. Harmful by inhalation. Avoid exposure - obtain special instructions before use. Do not breathe vapor or mist. Avoid contact with eyes, skin and clothing. Contains material that may cause target organ damage, based on animal data. Contains material which may cause cancer. Risk of cancer depends on duration and level of exposure. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use.
Potential Acute Health Effects	See section 11 for more detailed information on health effects and symptoms. Extremely hazardous by the following route of exposure: of ingestion. Very hazardous by the following route of exposure: of skin contact (irritant). Hazardous by the following route of exposure: of eye contact (irritant). Slightly hazardous by the following route of exposure: of inhalation.
Note to Physician	Not available.

Section 3. Composition, information on ingredients

Canada		
Name	CAS number	Conc. (% w/w)
Ethylene glycol	107-21-1	88.5 - 97.5
Sodium Benzoate	532-32-1	0.3 - 1.05
Sodium tolyltriazole	64665-57-2	0.1 - 0.75
Sodium nitrite	7632-00-0	0.1 - 0.75

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There are no other ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Section 4. First aid measures

Eye contact	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 30 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
Skin contact	In case of contact, immediately flush skin with plenty of water for at least 30 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
Inhalation	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
Ingestion	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Notes to physician	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Section 5. Fire-fighting measures

Products of combustion	Decomposition products may include the following materials: carbon dioxide carbon monoxide
Fire-fighting media and instructions	Use an extinguishing agent suitable for the surrounding fire.
Fire Hazards	Not available.
Explosion Hazards	Not available.

Section 6. Accidental release measures

Small spill and leak	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill and leak	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

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Section 7. Handling and Storage

Handling	Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Storage	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Engineering controls Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Personal protection

Eyes Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Body Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

United States

Product name

Ethylene glycol

Exposure limits

OSHA PEL 1989 (United States, 3/1989).

CEIL: 50 ppm

CEIL: 125 mg/m³

ACGIH TLV (United States, 1/2008).

C: 100 mg/m³ Form: Aerosol

Occupational exposure limits

Ingredient	List name	TWA (8 hours)			STEL (15 mins)			Ceiling			Notations
		ppm	mg/m ³	Other	ppm	mg/m ³	Other	ppm	mg/m ³	Other	

Continued on next page

Ethylene glycol	US ACGIH 1/2008	-	-	-	-	-	-	-	100	-	[a]
	AB 6/2008	-	-	-	-	-	-	-	100	-	[b]
	BC 1/2012	-	-	-	-	-	-	-	100	-	[a]
	BC 6/2008	-	10	-	-	20	-	-	-	-	[c]
	BC 1/2012	-	-	-	-	-	-	50	-	-	[d]
	ON 6/2008	-	-	-	-	-	-	-	100	-	[e]
	QC 1/2012	-	-	-	-	-	-	50	127	-	[e]

Form: [a]Aerosol [b]aerosol [c]Particulate [d]Vapour [e]vapour and mist

Section 9. Physical and chemical properties

Physical State and Appearance	Liquid. [Fully transparent, clear red liquid]	Odour	Not available.
Molecular weight	Not applicable.	Taste	Not available.
pH	7.8 to 8.6 [Conc. (% w/w): 50%]	Colour	Not available.
Boiling/condensation point	Not available.	Volatility	Not available.
Melting/freezing point	-37°C (-34.6°F)	Evaporation rate	Not available.
Relative density	Not available.	Odour Threshold	Not available.
Vapor pressure	Not available.	Viscosity	Not available.
Vapour Density	Not available.	Solubility	Soluble in the following materials: cold water, methanol and diethyl ether.
VOC content	93.6 % (w/w)	Other Properties	Not available.

The product is: May be combustible at high temperature.

Auto-ignition temperature Not available.

Flash point Not available.

Flammable limits Not available.

Fire hazards in the presence of various substances Non-flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts.

Section 10. Stability and reactivity

Stability The product is stable.

Conditions of instability Not available.

Incompatibility with various substances Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis.

Hazardous decomposition products Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Continued on next page



Section 11. Toxicological Information

Canada

Acute toxicity

Ethylene glycol	LC50 Inhalation Dusts and mists	Rat	2725 mg/m ³	4 hours
	LD50 Dermal	Rabbit	9500 mg/kg	-
	LD50 Dermal	Rabbit	9500 mg/kg	-
	LD50 Dermal	Rabbit	9530 uL/kg	-
	LD50 Intraperitoneal	Mouse	5614 mg/kg	-
	LD50 Intraperitoneal	Rat	5010 mg/kg	-
	LD50 Intravenous	Rat	3260 mg/kg	-
	LD50 Oral	Cat	1650 mg/kg	-
	LD50 Oral	Dog	5500 mg/kg	-
	LD50 Oral	Mouse	5500 mg/kg	-
	LD50 Oral	Rat	4000 mg/kg	-
	LD50 Oral	Rat	4700 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
	LD50 Subcutaneous	Rat	2800 mg/kg	-
	LD50 Unreported	Mouse	8050 mg/kg	-
	LD50 Unreported	Rabbit	5017 mg/kg	-
	LD50 Unreported	Rat	13 g/kg	-
Sodium Benzoate	LD50 Oral	Rat	4070 mg/kg	-
	LD50 Oral	Rat	4070 mg/kg	-
Sodium tolyltriazole	LD50 Oral	Rat - Female	640 mg/kg	-
Sodium nitrite	LD50 Oral	Rat	85 mg/kg	-
Conclusion/Summary	Not available.			

Chronic toxicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Ethylene glycol	A4	-	-	-	-	-
Sodium nitrite	-	2A	-	-	-	-

Mutagenicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Reproductive Toxicity

Conclusion/Summary : Not available.

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**Section 12. Ecological information**

For accidental discharges into the environment, see Section 6: "Accidental Release Measures" for suggested instructions.

Ecotoxicity : No known significant effects or critical hazards.

Canada**Aquatic ecotoxicity**

Product/ingredient name	Result	Species	Exposure
Ethylene glycol	Acute EC50 >100 mg/L	Daphnia	4 hours
	Acute EC50 >100 mg/L	Daphnia	4 hours
	Acute IC50 >100 mg/L	Algae	1 hours
	Acute IC50 >100 mg/L	Algae	1 hours
	Acute LC50 >100000 ug/L Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 6900000 to 8800000 ug/L Fresh water	Daphnia - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 >100 mg/L	Fish	24 hours
	Acute LC50 >100 mg/L	Fish	24 hours
	Acute LC50 8050000 ug/L Fresh water	Fish - Pimephales promelas - <=7 days	96 hours
	Chronic NOEC 11610000 ug/L Fresh water	Daphnia - Ceriodaphnia dubia - <=24 hours	48 hours
Chronic NOEC 6090000 ug/L Fresh water	Fish - Pimephales promelas - <=7 days	96 hours	
Sodium Benzoate	Acute LC50 >100000 ug/L Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) - 0.2 to 0.5 g	96 hours
Sodium nitrite	Acute LC50 1100 ug/L Fresh water	Crustaceans - Cherax quadricarinatus - 0.1 to 0.14 g	48 hours
	Acute LC50 48 ug/L Fresh water	Fish - Ictalurus punctatus - Fingerling - 50 to 76 mm	96 hours
	Chronic NOEC 0.02 mg/L Fresh water	Fish - Labeo rohita - Fingerling	96 hours

Conclusion/Summary : Not available.

Biodegradability

Conclusion/Summary : Not available.

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Section 13. Disposal considerations

Waste information The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14. Transport information

Canada TDG Classification

Class Not available.

Subsidiary class -

Proper Shipping Name (Canada) TDG Not available.

UN number Not available.

Packing Group -

Special provisions Not available.

IMDG Classification

Class Not available.

Subsidiary class -

Proper Shipping Name IMDG Not available.

UN number Not available.

Packing Group -

Marine pollutant Not a pollutant.

Special provisions -

United States DOT (Classification)

Class Not available.

Subsidiary class -

Proper Shipping Name (United States) DOT Not available.

UN number Not available.

Packing Group -

Special provisions Not available.

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International Air Transport Association (IATA) For air shipment classification and associated regulations, please refer to the latest edition of IATA Dangerous Goods Regulations.

Section 15. Regulatory information

WHMIS Classification (Canada) Class D-2A: Material causing other toxic effects (Very toxic).

Canada Domestic Substances List (DSL) Status Not determined.

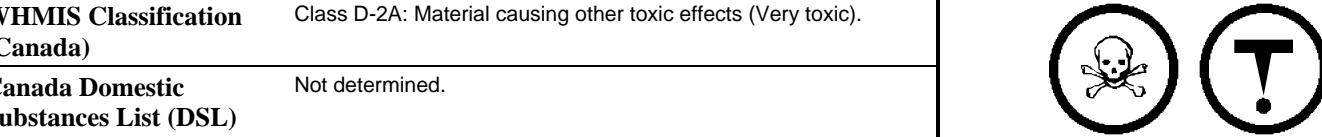
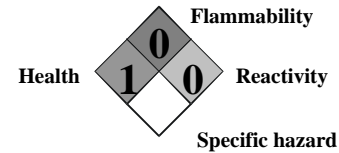
HCS Classification (U.S.A.) Toxic material
Carcinogen
Target organ effects

U.S.A. Regulatory Lists TSCA 5(a)2 final significant rules Sodium nitrite
United States inventory (TSCA 8b): Not determined.
TSCA 8(d) H and S data reporting: Sodium nitrite: 1991
TSCA 12(b) annual export notification: Sodium nitrite

Hazardous Material Information System (U.S.A.)

Health	1
Flammability	0
Reactivity	0
Personal protection	

National Fire Protection Association (U.S.A.)



Section 16. Other information

Validated and verified by Compliance and Technical Information Manager on 5/3/2012 ph.# 905-878-5544.

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Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

MSDS are available at www.recochem.com