

SAFETY DATA SHEET



EXCELSIOR FR 920

Version 0.0 Revision Date: 02/06/2024 SDS Number: F000003065 Date of last issue: 05/23/2016
Date of first issue: 05/23/2016

SECTION 1. IDENTIFICATION

Product name : EXCELSIOR FR 920

Manufacturer or supplier's details

Company name of supplier : RHC
Address : 1602 N Union Street
Fostoria, OH 44830-1158
Telephone : (866) 353-9261
Emergency telephone : (CHEMTREC): (800) 424-9300 (CHEMTREC International):
(703) 527-3887 Industrial Health/Spill Emergency: (706) 277-1300 Danny Welch (ehs@trcc.com)

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids : Category 4
Acute toxicity (Inhalation) : Category 3
Acute toxicity (Dermal) : Category 3
Skin corrosion : Category 1
Serious eye damage : Category 1

GHS label elements

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : H227 Combustible liquid.
H311 + H331 Toxic in contact with skin or if inhaled.
H314 Causes severe skin burns and eye damage.

Precautionary Statements : P102 Keep out of reach of children.
P103 Read label before use.

Prevention:

P210 Keep away from heat/ sparks/ open flames/ hot surfaces.
No smoking.
P261 Avoid breathing mist or vapors.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/
face protection.

Response:

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P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P362 Take off contaminated clothing and wash before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Additional Labeling

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 72.5 %

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 72.5 %

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components

Chemical name	CAS-No.	Concentration (% w/w)
2-butoxyethanol	111-76-2	$\geq 20 - < 30$
2-aminoethanol	141-43-5	$\geq 5 - < 10$

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Consult a physician.
Show this material safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.

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- In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Keep respiratory tract clear.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : May be harmful if swallowed.
Toxic in contact with skin or if inhaled.
Causes serious eye damage.
Causes severe burns.
Toxic in contact with skin or if inhaled.
Causes serious eye damage.
Causes severe burns.
- Notes to physician : Treat symptomatically.
-

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Carbon dioxide (CO₂)
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : No hazardous combustion products are known
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
For safety reasons in case of fire, cans should be stored separately in closed containments.
Use a water spray to cool fully closed containers.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.
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SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency measures : Use personal protective equipment.

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gency procedures

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Neutralize with acid.
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.
Keep away from open flames, hot surfaces and sources of ignition.

Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapors/dust.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
To avoid spills during handling keep bottle on a metal tray.
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : No smoking.
Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid : Do not freeze.

Keep away from oxidizing agents and strongly acid or alkaline materials.

Keep away from tobacco products.

Keep away from food and drink.

Further information on storage stability : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
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		(Form of exposure)	ters / Permissible concentration	
2-butoxyethanol	111-76-2	TWA	20 ppm	ACGIH
		TWA	5 ppm 24 mg/m3	NIOSH REL
		TWA	50 ppm 240 mg/m3	OSHA Z-1
		TWA	25 ppm 120 mg/m3	OSHA P0
2-aminoethanol	141-43-5	TWA	3 ppm	ACGIH
		STEL	6 ppm	ACGIH
		TWA	3 ppm 8 mg/m3	NIOSH REL
		ST	6 ppm 15 mg/m3	NIOSH REL
		TWA	3 ppm 6 mg/m3	OSHA Z-1
		TWA	3 ppm 8 mg/m3	OSHA P0
		STEL	6 ppm 15 mg/m3	OSHA P0

Engineering measures : Handle only in a place equipped with local exhaust (or other appropriate exhaust).
 Maintain air concentrations below occupational exposure standards.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water
 Tightly fitting safety goggles
 Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : Impervious clothing
 Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Protective measures : Avoid contact with skin.
 The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
 Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing
 When using do not eat, drink or smoke.

Hygiene measures : Avoid contact with skin, eyes and clothing.
 When using do not eat or drink.
 When using do not smoke.
 Wash hands before breaks and immediately after handling the product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance : liquid
Color : clear
Odor : characteristic
pH : 11.5 - 12.5
Melting point/range : No data available
Boiling point/boiling range : 212 °F / 100 °C
Flash point : 163 °F / 73 °C

Upper explosion limit / Upper flammability limit : No data available
Lower explosion limit / Lower flammability limit : No data available
Vapor pressure : No data available
Density : 955 - 965 kg/m³
Solubility(ies)
 Water solubility : completely soluble
 Solubility in other solvents : not determined
Partition coefficient: n-octanol/water : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.
Chemical stability : No decomposition if stored and applied as directed.
Possibility of hazardous reactions : No decomposition if stored and applied as directed.
Vapors may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.
Incompatible materials : Not applicable
Hazardous decomposition products : Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Toxic in contact with skin or if inhaled.

Product:

Acute oral toxicity : Acute toxicity estimate: 2,226 mg/kg
Method: Calculation method

Acute toxicity estimate: 2,226 mg/kg

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Acute inhalation toxicity : Method: Calculation method
Acute toxicity estimate: 4.13 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: 4.13 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: 412.5 mg/kg
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: 397 mg/kg
Method: Calculation method

Components:

2-butoxyethanol:

Acute oral toxicity : LD50 (Mouse): 1,519 mg/kg
LD50 (Rat): 2,300 mg/kg
GLP: no

Acute inhalation toxicity : LC50 (Rat): 900 ppm
Exposure time: 4 h
Test atmosphere: vapor
GLP: no

Acute inhalation toxicity : LC50 (Rat): 450 ppm
Exposure time: 4 h

2-aminoethanol:

Acute oral toxicity : LD50 (Rat): 10.2 g/kg
LD50 (Rat): 2,050 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 1.3 mg/l
Exposure time: 6 h
Test atmosphere: vapor
GLP: yes

Acute dermal toxicity : LD50 (Rabbit): 1,025 mg/kg
LD50 (Rabbit): 2,881 mg/kg
GLP: yes

Skin corrosion/irritation

Causes severe burns.

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Product:

Remarks : Extremely corrosive and destructive to tissue.

Components:

2-butoxyethanol:

Species : Rabbit
Assessment : irritating
Method : in vivo
GLP : no

2-aminoethanol:

Assessment : irritating

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks : May cause irreversible eye damage.

Components:

2-butoxyethanol:

Species : Rabbit
Exposure time : 24 - 72 h
Assessment : irritating
Method : in vivo
GLP : yes

2-aminoethanol:

Species : Rabbit
Exposure time : 24 - 72 h
Assessment : irritating
Method : in vivo
GLP : no

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Components:

2-butoxyethanol:

Test Type : Skin sensitization:
Species : Guinea pig
Method : in vivo
Result : Non sensitising
GLP : yes

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2-aminoethanol:

Test Type : Skin sensitization:
Species : Guinea pig
Method : in vivo
Result : Non sensitising
GLP : No data available

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

2-butoxyethanol:

Species : Guinea pig, male
NOAEL : < 375 ppm(m)
Application Route : Inhalation
Exposure time : 30 d
Method : vapor
GLP : no

Species : Rabbit, male and female
NOAEL : > 150 mg/kg
Application Route : Dermal
Exposure time : 90 d
Method : Occlusive
GLP : yes

Species : Mouse, male
NOAEL : > 694 mg/kg
Application Route : Oral
Exposure time : 90 d

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Method : Oral
GLP : yes

2-aminoethanol:

Species : Rat, male
NOAEL : 500 mg/m³
Application Route : Inhalation
Method : Vapor/aerosol
GLP : no

Species : Rat, male and female
NOAEL : 300 mg/kg
Application Route : Oral
Exposure time : > 75 d
Method : Diet
GLP : yes

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks : No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

2-butoxyethanol:

Toxicity to fish : LC₅₀ (Cyprinodon variegatus (sheepshead minnow)): > 116 mg/l
Exposure time: 96 h

LC₅₀ (Lepomis macrochirus (Bluegill sunfish)): 1,490 mg/l
Exposure time: 96 h
Method: static test

LC₅₀ (Carp (Leuciscus idus melanotus)): 1,575 mg/l
Exposure time: 48 h

LC₅₀ (Pimephales promelas (fathead minnow)): 2,137 mg/l
Exposure time: 96 h
Analytical monitoring: Analytical monitoring: no
Method: static test
GLP: no

LC₅₀ (Leuciscus idus (Golden orfe)): 1,575 mg/l
Exposure time: 48 h
Analytical monitoring: Analytical monitoring: no data
Method: static test

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GLP: no

Toxicity to daphnia and other aquatic invertebrates : LC50 (Penaeus sp.): > 130 mg/l
Exposure time: 96 h

LC50 (Crangon crangon (shrimp)): 600 - 1,000 mg/l
Exposure time: 48 h
Method: Renewal

LC50 (Crangon crangon (shrimp)): 550 - 950 mg/l
Exposure time: 96 h
Method: Renewal

LC50 (Daphnia magna (Water flea)): > 1,000 mg/l
Exposure time: 48 h
Analytical monitoring: Analytical monitoring: no data
Method: static test
GLP: no

LC50 (Crangon crangon (shrimp)): 775 mg/l
Exposure time: 96 h

Toxicity to fish (Chronic toxicity) : NOAEL (No observed adverse effect level) (Danio rerio (zebra fish)): > 100 mg/l
Exposure time: 21 d
Analytical monitoring: Analytical monitoring: no
Method: semi-static test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50 (Daphnia magna (Water flea)): 297 mg/l
Exposure time: 21 d
Analytical monitoring: Analytical monitoring: yes
Method: semi-static test
GLP: no

EC50 (Ceriodaphnia dubia (water flea)): 138 mg/l
Exposure time: 7 d
Analytical monitoring: Analytical monitoring: no
Method: semi-static test
GLP: no

NOAEL (No observed adverse effect level) (Daphnia magna (Water flea)): 100 mg/l
Exposure time: 21 d
Analytical monitoring: Analytical monitoring: yes
Method: semi-static test
GLP: no

2-aminoethanol:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 300 mg/l
Exposure time: 96 h

LC50 (Oncorhynchus mykiss (rainbow trout)): 150 mg/l
Exposure time: 96 h

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LC50 (Oncorhynchus mykiss (rainbow trout)): > 200 mg/l
Exposure time: 24 h

LC50 (Pimephales promelas (fathead minnow)): 2,070 mg/l
Exposure time: 96 h
Method: Acute toxicity

LC50 (Lepomis macrochirus (Bluegill sunfish)): 365.9 mg/l
Exposure time: 48 h
Method: static test

LC50 (Lepomis macrochirus (Bluegill sunfish)): 300 - 1,000 mg/l
Exposure time: 96 h
Method: static test

LC50 (Pimephales promelas (fathead minnow)): 2,070 mg/l
Exposure time: 96 h
Analytical monitoring: Analytical monitoring: yes
Method: flow-through test
GLP: no

LC50 (Leuciscus idus (Golden orfe)): 224 - 525 mg/l
Exposure time: 48 h
Analytical monitoring: Analytical monitoring: no data
Method: static test
GLP: no

Toxicity to daphnia and other aquatic invertebrates : LC50 (Crangon crangon (shrimp)): > 100 mg/l
Exposure time: 48 h
Method: Renewal

Toxicity to fish (Chronic toxicity) : LOAEL (Lowest observed adverse effect level) (Oryzias latipes (Japanese medaka)): 3.55 mg/l
Exposure time: 41 d
Analytical monitoring: Analytical monitoring: no data
Method: flow-through test

NOAEL (No observed adverse effect level) (Salvelinus fontinalis (Brook trout)): 14.1 mg/l
Exposure time: 60 d
Analytical monitoring: Analytical monitoring: no
Method: flow-through test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50 (Daphnia magna (Water flea)): 15.75 mg/l
Exposure time: 21 d
Analytical monitoring: Analytical monitoring: yes
Method: semi-static test
GLP: No data available

NOAEL (No observed adverse effect level) (Daphnia magna (Water flea)): 0.85 mg/l
Exposure time: 21 d
Analytical monitoring: Analytical monitoring: yes
Method: semi-static test

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GLP: No data available

Persistence and degradability

Components:

2-butoxyethanol:

Biodegradability

: Biodegradation: 82 %
GLP: No data available

Biodegradation: 64 %
GLP: No data available

Biodegradation: 26 %
GLP: No data available

Biodegradation: 70 %
GLP: No data available

Concentration: 20 mg/l
Biodegradation: 20 %
GLP: no

Biodegradation: 88 %
GLP: No data available

Biodegradation: 74 %
GLP: No data available

Concentration: 20 mg/l
Biodegradation: 63 %
GLP: no

Concentration: 3 mg/l
Biodegradation: 67 - 75 %
GLP: no

Concentration: 3 mg/l
Biodegradation: 12 %
GLP: no

Biodegradation: 29 %
GLP: No data available

Biodegradation: 75 %
GLP: No data available

Concentration: 20 mg/l
Biodegradation: 40 %
GLP: no

Biodegradation: 90.4 %
GLP: no

Biodegradation: 82 %

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GLP: No data available

Concentration: 3 mg/l
Biodegradation: 73 - 77 %
GLP: no

Concentration: 400 mg/l
Biodegradation: 95 %
Exposure time: 8 d
GLP: no

Biodegradation: 47 %
GLP: No data available

Biodegradation: 58.7 %
GLP: no

Biodegradation: 40.5 %
GLP: no

Biodegradation: 43 %
GLP: no

Concentration: 20 mg/l
Biodegradation: 67 %
GLP: no

Biodegradation: 75 %
GLP: No data available

Biodegradation: 26 %
GLP: No data available

Biodegradation: 74 %
GLP: No data available

Biodegradation: 88 %
GLP: No data available

Biodegradation: 18.3 %
GLP: no

Biodegradation: 70 %
GLP: No data available

Concentration: 20 mg/l
Biodegradation: 74 - 75 %
GLP: no

2-aminoethanol:

Biodegradability : Concentration: 20 mg/l
Biodegradation: > 90 %
Exposure time: 21 d
GLP: no

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Concentration: 19 mg/l
Biodegradation: > 80 %
Exposure time: 31 d
GLP: no

Concentration: 76 mg/l
Biodegradation: > 70 %
Exposure time: 28 d
GLP: no

Concentration: 100 mg/l
Biodegradation: 83 %
Exposure time: 14 d
GLP: no

Concentration: 100 mg/l
Biodegradation: > 70 %
Exposure time: 28 d
GLP: no

Bioaccumulative potential

Components:

2-butoxyethanol:

Partition coefficient: n-octanol/water : log Pow: 0.83
log Pow: 0.83

2-aminoethanol:

Bioaccumulation : Bioconcentration factor (BCF): 2.3
Species: various
Bioconcentration factor (BCF): 0.75
Bioconcentration factor (BCF): 9.2

Partition coefficient: n-octanol/water : log Pow: -1.31
log Pow: -1.31

Mobility in soil

No data available

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

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Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : UN 1760
Proper shipping name : CORROSIVE LIQUID, N.O.S.
Class : 8
Packing group : II
Labels : 8

IATA-DGR

UN/ID No. : UN 1760
Proper shipping name : Corrosive liquid, n.o.s.
(ETHANOLAMINE)
Class : 8
Packing group : II
Labels : Corrosives
Packing instruction (cargo aircraft) : 855

IMDG-Code

UN number : UN 1760
Proper shipping name : CORROSIVE LIQUID, N.O.S.
Class : 8
Packing group : II
Labels : 8
EmS Code : F-A, S-B
Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR

UN/ID/NA number : UN 1760

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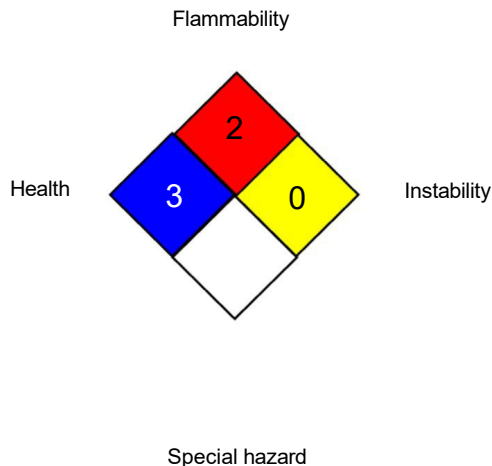
Version
0.0

Revision Date:
02/06/2024

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NFPA 704:



HMIS® IV:

HEALTH	/	3
FLAMMABILITY		2
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA P0 / TWA	:	8-hour time weighted average
OSHA P0 / STEL	:	Short-term exposure limit
OSHA Z-1 / TWA	:	8-hour time weighted average

AICC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International

SAFETY DATA SHEET



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Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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