#RSC Chemical Solutions

SAFETY DATA SHEET

1. Identification

Product identifier Tite Seal Instant Tire Repair

Other means of identification

SDS number M1112NF
Part No. M1112NF
Tariff code 3506.91.0000
Recommended use Tire Repair
Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name
Address
RSC Chemical Solutions
600 Radiator Road
Indian Trail, NC 28079

United States

Telephone Customer Service: (704) 821-7643

Technical: (704) 684-1811

Website www.rscbrands.com

E-mail Not available.

Emergency phone number Emergency Telephone: (303) 623-5716

Emergency Contact: RMPDC (877-740-5015)

2. Hazard(s) identification

Physical hazardsFlammable aerosolsNot applicableHealth hazardsAcute toxicity, oralCategory 4Acute toxicity, dermalCategory 4Acute toxicity, inhalationCategory 4

Acute toxicity, inhalation Category 4
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Specific target organ toxicity, repeated

exposure

Category 1

Environmental hazards Hazardous to the aquatic environment, acute

nazard

onment, acute Category 3

Hazardous to the aquatic environment,

Category 3

long-term hazard

OSHA defined hazards

Not classified.

Label elements



Signal word Danger

Hazard statement Harmful if swallowed. Harmful in contact with skin. Causes skin irritation. Causes serious eye

irritation. Harmful if inhaled. May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure. Harmful to aquatic life. Harmful to aquatic life with long lasting

effects.

Precautionary statement

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open

flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment.

Wear protective gloves/protective clothing. Wear eye/face protection.

If swallowed: Call a poison center/doctor if you feel unwell. If on skin: Wash with plenty of water. If Response

inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. Rinse mouth. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take

off contaminated clothing and wash before reuse.

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from

sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Dispose of contents/container in accordance with local/regional/national/international regulations. Disposal

Hazard(s) not otherwise classified (HNOC)

Storage

None known.

Supplemental information 28.35% of the mixture consists of component(s) of unknown acute oral toxicity. 29.22% of the

mixture consists of component(s) of unknown acute dermal toxicity. % of the mixture consists of component(s) of unknown acute inhalation toxicity. 47.39% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 47.39% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
R 134a		811-97-2	20 - < 30
2-Butoxyethanol		111-76-2	10 - < 20
ETHYLENE GLYCOL		107-21-1	3 - < 5
AMMONIA		7664-41-7	< 1
Other components below reportable	levels		50 - < 60

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or Inhalation

artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.

Remove contaminated clothing. Wash with plenty of soap and water. Get medical advice/attention Skin contact

if you feel unwell. If skin irritation occurs: Get medical advice/attention. Wash contaminated

clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Ingestion

Get medical advice/attention if you feel unwell.

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

General information

media

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing

Powder. Alcohol resistant foam. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

Specific methods

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Refer to attached safety data sheets and/or instructions for use. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Use water spray to reduce vapors or divert vapor cloud drift. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

7. Handling and storage

Precautions for safe handling

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Level 1 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
2-Butoxyethanol (CAS 111-76-2)	PEL	240 mg/m3	
		50 ppm	
AMMONIA (CAS 7664-41-7)	PEL	35 mg/m3	
,		50 ppm	
US. ACGIH Threshold Limit Valu	ues		
Components	Туре	Value Form	
2-Butoxyethanol (CAS 111-76-2)	TWA	20 ppm	
ANANAONIA (CAC			
AMMONIA (CAS 7664-41-7)	STEL	35 ppm	

Material name: Tite Seal Instant Tire Repair

SDS US

US. ACGIH Threshold Limit Value Components	s Type	Value	Form
ETHYLENE GLYCOL (CAS 107-21-1)	Ceiling	100 mg/m3	Aerosol.
US. NIOSH: Pocket Guide to Cher	nical Hazards		
Components	Туре	Value	
2-Butoxyethanol (CAS 111-76-2)	TWA	24 mg/m3	
		5 ppm	
AMMONIA (CAS 7664-41-7)	STEL	27 mg/m3	
,		35 ppm	
	TWA	18 mg/m3	
		25 ppm	
US. Workplace Environmental Ex	posure Level (WEEL) Guides		
Components	Туре	Value	
R 134a (CAS 811-97-2)	TWA	4240 mg/m3	
•		1000 ppm	

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
2-Butoxyethanol (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA),	Creatinine in urine	*
		with hydrolysis		

^{* -} For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

2-Butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

2-Butoxyethanol (CAS 111-76-2) Skin designation applies.

US - Tennessee OELs: Skin designation

2-Butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

2-Butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

2-Butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance Liquid.
Physical state Liquid.

Form Aerosol.

Color Opaque. Milky.
Odor Ammoniacal.
Odor threshold Not available.

pH 10.6

Melting point/freezing point -149.8 °F (-101 °C) estimated
Initial boiling point and boiling 335.12 °F (168.4 °C) estimated

range

Flash point None

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 1693.44 hPa estimated

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature 460.4 °F (238 °C) estimated

Decomposition temperature Not available. **Viscosity** Not available.

Other information

Density 8.34 lbs/gal estimated

Explosive properties Not explosive.

Heat of combustion (NFPA 5.23 kJ/g estimated

30B)

Oxidizing properties Not oxidizing.

Percent volatile 70.78 % estimated

Specific gravity 1 estimated

VOC (Weight %) 15.64 % estimated

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoidContact with incompatible materials.

Incompatible materials Strong oxidizing agents.

incompatible materials Strong oxidizing agents.

Hazardous decomposition products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure by

inhalation.

Skin contact Harmful in contact with skin. Causes skin irritation.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and

prolonged. These effects have not been observed in humans.

Eye contact Causes serious eye irritation.

Ingestion Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. May cause respiratory irritation. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity Harmful if inhaled. Harmful in contact with skin. Harmful if swallowed. May cause respiratory

irritation.

2-Butoxyethanol (CAS 111-76-2) Acute Dermal LD50 Rabbit 400 mg/kg Inhalation LC50 Mouse 700 ppm, 7 Hours Rat 450 ppm, 4 Hours Oral LD50 Guinea pig 1.2 g/kg Mouse 1.2 g/kg Rabbit 0.32 g/kg Rabbit 0.32 g/kg Rat 560 mg/kg AMMONIA (CAS 7664-41-7) Acute Inhalation LC50 Cat 0.746 mg/l, 1 Hours Rabbit 7.05 mg/l, 10 Minutes 3.36 mg/l, 1 Hours 3.31 mg/l, 2 Hours 7.66 mg/l, 2 Hours 7.66 mg/l, 2 Hours 7.6 mg/l, 2 Hours 7.6 mg/l, 2 Hours 7.6 mg/l, 1 Hours 7.6 mg/l, 2 Hours 7.6 mg/l, 1 Hours 7.6 mg/l, 2 Hours 7.6 mg/l, 2 Hours 7.6 mg/l, 1 Hours 7.6 mg/l, 1 Hours 7.6 mg/l, 1 Hours 7.6 mg/l, 2 Hours 7.6 mg/l, 2 Hours 7.6 mg/l, 1 Hours 7.6 mg/l, 2 Hours 7.6 mg/l, 1 Hours 7.6 mg/l,	Components	Species	Test Results
Dermal LD50	2-Butoxyethanol (CAS 111-7	76-2)	
LD50 Rabbit 400 mg/kg Inhalation CC50 Mouse 700 ppm, 7 Hours Oral LD50 Guinea pig 1.2 g/kg LD50 Mouse 1.2 g/kg Rabbit 0.32 g/kg 60 mg/kg AMMONIA (CAS 7664-41-7) Acute 560 mg/kg Inhalation LC50 Cat 0.746 mg/l, 1 Hours LC50 Mouse 7.105 mg/l, 1 Minutes 3.36 mg/l, 1 Hours LC60 Rabbit 7.05 mg/l, 1 Hours 4.000 ppm, 1 Hours L Facult Rat 4000 ppm, 1 Hours 4.000 ppm, 1 Hours L D50 Rat 350 mg/kg 51 mg/l, 2 Hours ETHYLENE GLYCOL (CAS 107-21-1) 4 4 4000 ppm, 1 Hours Acute Bermal 4 4 4000 ppm, 1 Hours L D50 Rat 350 mg/kg 500 mg/kg ETHYLENE GLYCOL (CAS 107-21-1) 4			
Inhalation		D 11.9	400 #
LC50 Mouse 700 ppm, 7 Hours Notal LD50 Guinea pig 1.2 g/kg Mouse 1.2 g/kg Mouse 1.2 g/kg Rabbit 0.32 g/kg AMMONIA (CAS 7664-41-7) Acute Inhalation LC50 Cat 0.746 mg/l, 1 Hours ABbit 7.05 mg/l, 2 Hours ABbit 7.05 mg/l, 2 Hours ABbit 7.05 mg/l, 1 Hours ABbit 7.05 mg/l, 2 Hours ABbit 7.05 mg/l,		Rabbit	400 mg/kg
Oral LD50 Guinea pig 1.2 g/kg Mouse 1.2 g/kg Rabbit 0.32 g/kg AMMONIA (CAS 7664-41-7) 60 mg/kg ACute inhalation LC50 Cat 0.746 mg/l, 1 Hours LC50 Mouse 7.105 mg/l, 10 Minutes 3.36 mg/l, 2 Hours 3.31 mg/l, 2 Hours LC50 Rat 4000 ppm, 1 Hours Rat 4000 ppm, 1 Hours LD50 Rat 350 mg/kg ETHYLENE GLYCOL (CAS 107-21-1) Acute Dermal LD50 Rabbit 9530 mg/kg Dermal LD50 Rabbit 9530 mg/kg LD50 Abbit 9530 mg/kg BCUS Oral 1650 mg/kg LD50 Cat 1650 mg/kg Oral 1050 mg/kg 5500 mg/kg BCUS 2 g/kg 4000 mg/kg BCUS 2 g/kg 4000 mg/kg BCUS 2 g/kg 4000 mg/kg		Mayoo	700 ppm 7 Hours
Oral LD50 Guinea pig 1.2 g/kg Mouse 1.2 g/kg Rabbit 0.32 g/kg ABMONIA (CAS 7664-41-7) Acute Inhalation LC50 Cat 0.746 mg/l, 1 Hours LC50 Mouse 7.105 mg/l, 1 Minutes 3.36 mg/l, 2 Hours 3.36 mg/l, 2 Hours Rat 4000 ppm, 1 Hours Rat 4000 ppm, 1 Hours 7.6 mg/l, 2 Hours 5.1 mg/l, 1 Hours LD50 Rat 350 mg/kg ETHYLENE GLYCOL (CAS 107-21-1) Acute 9530 mg/kg Dermal LD50 Rabbit 9530 mg/kg LD50 Rabbit 9500 mg/kg Oral Cat 1650 mg/kg LD50 Cat 1650 mg/kg Oral Cat 1650 mg/kg Quinea pig 8.2 g/kg Mouse 14.6 g/kg	LC50		
LD50	01	Rat	450 ppm, 4 Hours
Mouse 1.2 g/kg Rabbit 0.32 g/kg Rabbit 0.32 g/kg Rat 560 mg/kg Rabmin Rab		Guinea nig	1 2 a/ka
Rabbit R	LD30	• •	
Rat			
Adute Inhalation			
Nation	ANANAONIIA (CAC 7004 44 7)		560 mg/kg
Note Cat)	
LC50			
Mouse 7.105 mg/l, 10 Minutes 3.36 mg/l, 1 Hours 3.36 mg/l, 2 Hours 3.31 mg/l, 2 Hours 7.05 mg/l, 1 Hours 7.05 mg/l, 1 Hours 7.05 mg/l, 1 Hours 7.05 mg/l, 1 Hours 7.05 mg/l, 2 Hours 7.05 mg/l, 2 Hours 7.05 mg/l, 2 Hours 7.05 mg/l, 1 Hours 7.05 mg/l, 2 Hours 7.05 mg/l, 1 Hours 7.05 mg/l, 2 Hou		Cat	0.746 mg/l, 1 Hours
Sabit Sabi		Mouse	
Rabbit Rabbit 7.05 mg/l, 1 Hours Rabbit 7.05 mg/l, 1 Hours Rabbit 7.05 mg/l, 2 Hours 7.6 mg/l, 2 Hours 7.6 mg/l, 2 Hours 7.6 mg/l, 2 Hours 7.6 mg/l, 1 Hours 7.6 mg/l, 2 Hours 7.05 mg/kg 7.050 mg/kg			
Rabbit 7.05 mg/l, 1 Hours Rabbit 7.05 mg/l, 1 Hours 4000 ppm, 1 Hours 7.6 mg/l, 2 Hours 7.6 mg/l, 2 Hours 5.1 mg/l, 1 Hours 5.1 mg/l, 1 Hours 7.6 mg/l, 2 Hours 5.1 mg/l, 1 Hours 7.6 mg/l, 2 Hours 5.1 mg/l, 1 Hours 7.6 mg/kg 5.1 mg/l, 1 Hours 5.1 mg/kg 6.1 mg/k			
Rat		Rabbit	
7.6 mg/l, 2 Hours 5.1 mg/l, 1 Hours		Rat	
5.1 mg/l, 1 Hours Oral 5.1 mg/l, 1 Hours DETHYLENE GLYCOL (CAS 107-21-1) Acute Dermal LD50 Rabbit 9530 mg/kg Oral LD50 Cat 1650 mg/kg LD50 Cat 5500 mg/kg Guinea pig 8.2 g/kg Mouse 14.6 g/kg			
Oral LD50 Rat 350 mg/kg ETHYLENE GLYCOL (CAS 107-21-1) Acute Dermal LD50 Rabbit 9530 mg/kg Oral LD50 Cat 1650 mg/kg Dog 5500 mg/kg Guinea pig 8.2 g/kg Mouse 14.6 g/kg			
LD50 Rat 350 mg/kg ETHYLENE GLYCOL (CAS 107-21-1) Acute Dermal LD50 Rabbit 9530 mg/kg Oral LD50 Cat 1650 mg/kg LD50 Dog 5500 mg/kg Guinea pig 8.2 g/kg Mouse 14.6 g/kg	Oral		3 ,
Acute Dermal 9530 mg/kg LD50 Rabbit 9530 mg/kg D50 Cat 1650 mg/kg Dog 5500 mg/kg Guinea pig 8.2 g/kg Mouse 14.6 g/kg		Rat	350 mg/kg
Dermal LD50 Rabbit 9530 mg/kg Oral LD50 Cat 1650 mg/kg Dog 5500 mg/kg Guinea pig 8.2 g/kg Mouse 14.6 g/kg	ETHYLENE GLYCOL (CAS	107-21-1)	
LD50 Rabbit 9530 mg/kg Oral LD50 Cat 1650 mg/kg Dog 5500 mg/kg Guinea pig 8.2 g/kg Mouse 14.6 g/kg	<u>Acute</u>		
Oral LD50 Cat 1650 mg/kg Dog 5500 mg/kg Guinea pig 8.2 g/kg Mouse 14.6 g/kg			
LD50 Cat 1650 mg/kg Dog 5500 mg/kg Guinea pig 8.2 g/kg Mouse 14.6 g/kg	LD50	Rabbit	9530 mg/kg
Dog 5500 mg/kg Guinea pig 8.2 g/kg Mouse 14.6 g/kg			
Guinea pig 8.2 g/kg Mouse 14.6 g/kg	LD50		
Mouse 14.6 g/kg			
Rat 5.89 g/kg			
		Rat	5.89 g/kg

^{*} Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation

Serious eye damage/eye

irritation

Causes skin irritation.

Causes serious eve irritation.

Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

2-Butoxyethanol (CAS 111-76-2) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

May cause respiratory irritation.

Specific target organ toxicity -

repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard Not an aspiration hazard.

Chronic effects Causes damage to organs through prolonged or repeated exposure. May be harmful if absorbed

through skin. Prolonged inhalation may be harmful.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and

prolonged. These effects have not been observed in humans.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

Components		Species	Test Results
2-Butoxyethanol (CA	AS 111-76-2)		
Aquatic			
Fish	LC50	Inland silverside (Menidia beryllina)	1250 mg/l, 96 hours
AMMONIA (CAS 76	64-41-7)		
Aquatic			
Fish	LC50	Chinook salmon (Oncorhynchus tshawytscha)	0.43 - 0.47 mg/l, 96 hours
ETHYLENE GLYCO	L (CAS 107-21-1)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	8050 mg/l, 96 hours

^{*} Estimates for product may be based on additional component data not shown.

No data is available on the degradability of this product. Persistence and degradability

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

2-Butoxyethanol 0.83 ETHYLENE GLYCOL -1.36R 134a 1.274

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents

under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations

Local disposal regulations Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Do not re-use empty containers.

14. Transport information

DOT

UN number UN1950 **AEROSOLS UN** proper shipping name

Transport hazard class(es)

Class 2.2 Subsidiary risk ORM-D 2.2 Label(s)

Packing group Not applicable.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions Packaging exceptions 306 Packaging non bulk 304 Packaging bulk 314, 315

IATA

UN number UN1950 **AEROSOLS UN proper shipping name**

Transport hazard class(es)

2.2 **Class** Subsidiary risk

Not applicable. Packing group

Environmental hazards

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Forbidden.

Cargo aircraft only Forbidden.

IMDG

UN number UN1950 **UN proper shipping name AEROSOLS**

Transport hazard class(es)

2.2 Class Subsidiary risk

Not applicable. Packing group

Environmental hazards

Marine pollutant No. **EmS** F-D. S-U

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Not established.

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

the IBC Code

IATA; IMDG



15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

2-Butoxyethanol (CAS 111-76-2) Listed.
AMMONIA (CAS 7664-41-7) Listed.
ETHYLENE GLYCOL (CAS 107-21-1) Listed.

SARA 304 Emergency release notification

AMMONIA (CAS 7664-41-7) 100 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
AMMONIA	7664-41-7	100	500 lbs		

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
2-Butoxyethanol	111-76-2	10 - < 20	
ETHYLENE GLYCOL	107-21-1	3 - < 5	
AMMONIA	7664-41-7	< 1	

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

ETHYLENE GLYCOL (CAS 107-21-1)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

AMMONIA (CAS 7664-41-7)

Safe Drinking Water Act Not regulated. (SDWA)

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

2-Butoxyethanol (CAS 111-76-2) AMMONIA (CAS 7664-41-7)

ETHYLENE GLYCOL (CAS 107-21-1)

US. Massachusetts RTK - Substance List

2-Butoxyethanol (CAS 111-76-2) AMMONIA (CAS 7664-41-7)

ETHYLENE GLYCOL (CAS 107-21-1)

US. New Jersey Worker and Community Right-to-Know Act

2-Butoxyethanol (CAS 111-76-2) AMMONIA (CAS 7664-41-7) ETHYLENE GLYCOL (CAS 107-21-1)

US. Pennsylvania Worker and Community Right-to-Know Law

2-Butoxyethanol (CAS 111-76-2) AMMONIA (CAS 7664-41-7)

ETHYLENE GLYCOL (CAS 107-21-1)

US. Rhode Island RTK

2-Butoxyethanol (CAS 111-76-2) AMMONIA (CAS 7664-41-7) ETHYLENE GLYCOL (CAS 107-21-1)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

Issue date 04-27-2015

Version # 01

HMIS® ratings Health: 2*

Flammability: 1 Physical hazard: 0

NFPA ratings Health: 2

Flammability: 1 Instability: 0

NFPA ratings



Disclaimer

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.

Yes