

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 02/16/2016 : Version: 1.1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

Trade name : JOHNSEN'S SPRAY DE-ICER 32 FL.OZ.

Product code : 3280

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : De-Icer

1.3. Details of the supplier of the safety data sheet

Technical Chemical Company P.O. BOX 139 Cleburne, Texas 76033 T 817-645-6088

1.4. Emergency telephone number

Emergency number : CHEMTREC 24 Hour 1-800-424-9300, 1-703-527-3887 (International)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Flam. Liq. 2 H225
Acute Tox. 1 (Oral) H300
Acute Tox. 3 (Dermal) H311
Acute Tox. 4 (Inhalation:dust,mist) H332
STOT SE 1 H370
Full text of H statements : see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)





GHS02

GHS06

GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H225 - Highly flammable liquid and vapor

H300 - Fatal if swallowed H311 - Toxic in contact with skin H332 - Harmful if inhaled

H370 - Causes damage to organs

Precautionary statements (GHS-US) : P210 - Keep away from heat,sparks,open flames,hot surfaces. - No smoking

P233 - Keep container tightly closed

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical, ventilating, lighting equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge P260 - Do not breathe dust,fumes,gas,mist,vapor spray P261 - Avoid breathing dust,fume,gas,mist,vapor spray P264 - Wash affected areas thoroughly after handling P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area

P280 - Wear protective gloves, protective clothing, eye protection, face protection P301+P310 - If swallowed: Immediately call a poison control center, doctor, physician,

P302+P352 - If on skin: Wash with plenty of soap and water

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P307+P311 - If exposed: Call a poison center/doctor

P312 - Call a POISON CONTROL CENTER, doctor, if you feel unwell.

P321 - Specific treatment: See section 4.1 on SDS

P330 - Rinse mouth

P361 - Take off immediately all contaminated clothing P363 - Wash contaminated clothing before reuse

P370+P378 - In case of fire: See Section 5.1 Extinguishing Media

P403+P235 - Store in a well-ventilated place. Keep cool

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P405 - Store locked up

P501 - Dispose of contents/container to appropriate waste disposal facility, in accordance with

local, regional, national, international regulations.

2.3. Other hazards

Other hazards not contributing to the classification

: None under normal conditions.

Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/Information on ingredients

Not applicable

3.2. **Mixture**

Name	Product identifier	%	GHS-US classification
Methanol	(CAS No) 67-56-1	30 - 50	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:dust,mist), H331 STOT SE 1, H370
Ethylene Glycol	(CAS No) 107-21-1	30 - 50	Acute Tox. 1 (Oral), H300 Acute Tox. 4 (Inhalation:vapour), H332
Water	(CAS No) 7732-18-5	10 - 30	Not classified
2-Propanol	(CAS No) 67-63-0	5 - 10	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Sodium-2(3H)-Benzothiazolethione, Conc=50%, Aqueous Solution	(CAS No) 2492-26-4	0.049 - 0.051	Skin Corr. 1A, H314

The exact percentage is a trade secret.

SECTION 4: First aid measures

Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Call a POISON CENTER or doctor/physician.

First-aid measures after inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact

Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Immediately call a poison center or doctor/physician. Wash with plenty of soap and water. Wash contaminated clothing before reuse.

First-aid measures after eye contact

: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion

: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

Most important symptoms and effects, both acute and delayed

Symptoms/injuries

: Causes damage to organs.

Symptoms/injuries after inhalation

Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled.

Symptoms/injuries after skin contact

Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin.

Symptoms/injuries after eye contact

May cause slight eye irritation . Inflammation/damage of the eye tissue. Irritation of the eye tissue. Redness of the eye tissue.

Symptoms/injuries after ingestion

: Fatal if swallowed.

Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. **Extinguishing media**

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapor.

: May form flammable/explosive vapor-air mixture. Explosion hazard

Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

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Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No

smoking.

6.1.1. For non-emergency personnel

Protective equipment : Gloves. Safety glasses.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing dust, fume, gas, mist, vapor spray.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Dam up the liquid spill. Plug the leak, cut off the supply. Contain released substance, pump into

suitable containers.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed

: Handle empty containers with care because residual vapors are flammable.

Precautions for safe handling

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Avoid breathing dust,fume,gas,mist,vapor spray. Do not breathe

dust,fumes,gas,mist,vapor spray.

Hygiene measures

: Wash affected areas thoroughly after handling. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. Always wash hands after handling the product. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedur

: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting

equipment.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep in fireproof

place. Keep container tightly closed.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

7.3. Specific end use(s)

Follow Label Directions.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Methanol (67-56-1)	Methanol (67-56-1)		
USA ACGIH	ACGIH TWA (mg/m³)	262 mg/m³	
USA ACGIH	ACGIH TWA (ppm)	200 ppm (Methanol; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)	
USA ACGIH	ACGIH STEL (mg/m³)	328 mg/m³	
USA ACGIH	ACGIH STEL (ppm)	250 ppm	
USA OSHA	OSHA PEL (TWA) (mg/m³)	260 mg/m³	
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm	

2-Propanol (67-63-0)		
USA ACGIH	ACGIH TWA (mg/m³)	980 mg/m³
USA ACGIH	ACGIH TWA (ppm)	400 ppm

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2-Propanol (67-63-0)		
ACGIH STEL (mg/m³)	1225 mg/m³	
ACGIH STEL (ppm)	500 ppm	
OSHA PEL (TWA) (mg/m³)	980 mg/m³	
OSHA PEL (TWA) (ppm)	400 ppm	
	ACGIH STEL (ppm) OSHA PEL (TWA) (mg/m³)	

Ethylene Glycol (107-21-1)		
USA ACGIH	ACGIH Ceiling (mg/m³)	100 mg/m³ (Ethylene glycol; USA; Momentary value; TLV - Adopted Value)

8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station. Local exhaust venilation, vent hoods.

Personal protective equipment : Gloves. Safety glasses. Avoid all unnecessary exposure.





Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.
Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is

recommended.

Consumer exposure controls : Avoid contact during pregnancy/while nursing.

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Liquid.
Color : Red.

Odor : Characteristic. Mild . Sweet.

Odor threshold : No data available pH : No data available Relative evaporation rate (butyl acetate=1) : No data available Melting point : No data available Freezing point : No data available

Boiling point : $65 \, ^{\circ}\text{C}$ (Lowest Component) Flash point : $11 \, ^{\circ}\text{C}$ (Lowest Component)

Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapor pressure : No data available
Relative vapor density at 20 °C : No data available

Relative density : 0.94

Solubility Soluble in water. Log Pow : No data available : No data available Log Kow : No data available Viscosity, kinematic Viscosity, dynamic No data available Explosive properties : No data available Oxidizing properties : No data available : No data available **Explosion limits**

9.2. Other information

VOC content : 46.5 %

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

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Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

10.3. Possibility of hazardous reactions

Not established.

Conditions to avoid 10.4.

Direct sunlight. Extremely high or low temperatures. Open flame.

Incompatible materials

Strong acids. Strong bases.

Hazardous decomposition products

Toxic fume. . Carbon monoxide. Carbon dioxide. May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

: Oral: Fatal if swallowed. Dermal: Toxic in contact with skin. Inhalation:dust,mist: Harmful if Acute toxicity

Toute toxion,	inhaled.	
Methanol (67-56-1)		
LD50 oral rat	>= 2528 mg/kg body weight application as 50% aqueous solution	
LD50 dermal rabbit	17100 mg/kg corresponding to 20 ml/kg bw according to the authors	
LC50 inhalation rat (mg/l)	128.2 mg/l/4h Air	
2-Propanol (67-63-0)		
LD50 dermal rabbit	12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit)	
LC50 inhalation rat (mg/l)	73 mg/l/4h (Rat)	
Ethylene Glycol (107-21-1)		
LD50 oral rat	7712 mg/kg body weight	
LD50 dermal rat	> 3500 mg/kg body weight	
LC50 inhalation rat (mg/l)	> 2.5 mg/l 6 Hour by Air	
Sodium-2(3H)-Benzothiazolethione, Conc=50%, Aqueous Solution (2492-26-4)		
LD50 oral rat	> 2000 mg/kg (Rat)	
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Not classified	
Salandard and a market and a transfer and the saland	Medialog (Carl	

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

IARC group 3

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Causes damage to organs.

Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and

symptoms

Based on available data, the classification criteria are not met. Harmful if inhaled. Toxic in contact with skin. Fatal if swallowed.

Danger of serious damage to health by prolonged exposure through inhalation. Harmful if Symptoms/injuries after inhalation inhaled.

Symptoms/injuries after skin contact Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin.

Symptoms/injuries after eye contact May cause slight eye irritation . Inflammation/damage of the eye tissue. Irritation of the eye tissue. Redness of the eye tissue.

Symptoms/injuries after ingestion : Fatal if swallowed.

SECTION 12: Ecological information

12.1. **Toxicity**

Methanol (67-56-1)	
LC50 fish 1	15400 mg/l (LC50; EPA 660/3 - 75/009; 96 h; Lepomis macrochirus; Flow-through system; Fresh water; Experimental value)

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Methanol (67-56-1) EC50 Daphnia 1 LC50 fish 2			
·	> 10000 mg/l (EC50; DIN 38412-11; 48 h; Daphnia magna; Static system; Fresh water;		
LC50 fish 2	Experimental value)		
2000 HOH Z	10800 mg/l (LC50; 96 h; Salmo gairdneri)		
2-Propanol (67-63-0)			
LC50 fish 2	9640 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Pimephales promelas; Flow-through system; Fresh water; Experimental value)		
EC50 Daphnia 2	13299 mg/l (EC50; Other; 48 h; Daphnia magna)		
Ethylene Glycol (107-21-1)			
EC50 Daphnia 1	> 10000 mg/l (EC50; 24 h)		
LC50 fish 2	40761 mg/l (LC50; 96 h; Salmo gairdneri)		
12.2. Persistence and degradability	10101 mg/ (2000, 00 m, 00mm gan anon)		
JOHNSEN'S SPRAY DE-ICER 32 FL.OZ.			
Persistence and degradability	Not established.		
, , , , , , , , , , , , , , , , , , ,	Not established.		
Methanol (67-56-1)			
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.		
Biochemical oxygen demand (BOD)	0.6 - 1.12 g O ₂ /g substance		
Chemical oxygen demand (COD)	1.42 g O ₂ /g substance		
ThOD	1.5 g O ₂ /g substance		
BOD (% of ThOD)	0.8 (Literature study)		
2-Propanol (67-63-0)			
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. No (test)data on mobility of the substance available.		
Biochemical oxygen demand (BOD)	1.19 g O ₂ /g substance		
Chemical oxygen demand (COD)	2.23 g O ₂ /g substance		
ThOD	2.40 g O ₂ /g substance		
Ethylene Glycol (107-21-1)			
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil.		
Biochemical oxygen demand (BOD)	0.47 g O ₂ /g substance		
Chemical oxygen demand (COD)	1.24 g O ₂ /g substance		
ThOD	1.29 g O ₂ /g substance		
BOD (% of ThOD)	0.36		
Water (7732-18-5)			
Persistence and degradability	Not established.		
Sodium-2(3H)-Benzothiazolethione, Conc=50%	6, Aqueous Solution (2492-26-4)		
Persistence and degradability	No (test)data on mobility of the components available.		
12.3. Bioaccumulative potential			
JOHNSEN'S SPRAY DE-ICER 32 FL.OZ.			
Bioaccumulative potential	Not established.		
Methanol (67-56-1)	THE SHADINION.		
BCF fish 1	< 10 (BCF; 72 h; Leuciscus idus)		
Log Pow	-0.77 (Experimental value; Other)		
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).		
'	Low potential for bloacountulation (DOI < 5000).		
2-Propanol (67-63-0)	0.05 (Maight of oxidence approach) Others 25 °C)		
Log Pow	0.05 (Weight of evidence approach; Other; 25 °C) Low potential for bioaccumulation (Log Kow < 4).		
Bioaccumulative potential	Low potential for bloaccumulation (Log Now < 4).		
Ethylene Glycol (107-21-1)	10 (007 701)		
BCF fish 1	10 (BCF; 72 h)		
BCF other aquatic organisms 1	0.21 - 0.6 (BCF)		
BCF other aquatic organisms 2	190 (BCF; 24 h)		
Log Pow	-1.34 (Experimental value)		
	Low potential for bioaccumulation (BCF < 500).		
Bioaccumulative potential	Water (7732-18-5)		
Bioaccumulative potential Water (7732-18-5)	All and the second seco		
Bioaccumulative potential Water (7732-18-5) Bioaccumulative potential	Not established.		
Bioaccumulative potential Water (7732-18-5) Bioaccumulative potential Sodium-2(3H)-Benzothiazolethione, Conc=50%	6, Aqueous Solution (2492-26-4)		
Bioaccumulative potential Water (7732-18-5) Bioaccumulative potential			

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12.4. Mobility in soil

Methanol (67-56-1)	
Surface tension	0.023 N/m (20 °C)
Log Koc	Koc,PCKOCWIN v1.66; 1; Calculated value
2-Propanol (67-63-0)	
Surface tension	0.021 N/m (25 °C)
Ethylene Glycol (107-21-1)	
Surface tension	0.048 N/m (20 °C)

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to appropriate waste disposal facility, in accordance with local, regional,

national, international regulations.

Additional information : Handle empty containers with care because residual vapors are flammable.

Ecology - waste materials : Hazardous waste due to toxicity. Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

US DOT (ground): UN1992, Flammable liquids, toxic, n.o.s. (Methanol, Ethylene Glycol), 3, II, Limited Quantity

ICAO/IATA (air): UN1992, Flammable liquids, toxic, n.o.s. (Methanol, Ethylene Glycol), 3 (6.1), II, Limited Quantity

IMO/IMDG (water): UN1992, Flammable liquids, toxic, n.o.s. (Methanol, Ethylene Glycol), 3 (6.1), II, Limited Quantity

inio/finibg (water). UN1992, Flatifinable liquids, toxic, 11.0.5. (wethation, Ethylene Glycol), 3 (6.1), 11, Elimited Quantity

Special Provisions: IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional

Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55

C (1.3 bar at 131 F) are authorized

T7 - 4 178.274(d)(2) Normal...... 178.275(d)(3)

TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities

(in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively

TP13 - Self-contained breathing apparatus must be provided when this hazardous material is transported by sea

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Flammable liquids, toxic, n.o.s. (Methanol, Ethylene Glycol)
Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquid



DOT Symbols : G - Identifies PSN requiring a technical name

Packing group (DOT) : II - Medium Danger

DOT Special Provisions (49 CFR 172.102) : IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110

kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized

T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3)

TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively

TP13 - Self-contained breathing apparatus must be provided when this hazardous material is

transported by sea

DOT Packaging Exceptions (49 CFR 173.xxx) : 150
DOT Packaging Non Bulk (49 CFR 173.xxx) : 202

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DOT Packaging Bulk (49 CFR 173.xxx) : 243

14.3. Additional information

Other information : No supplementary information available.

Overland transport

No additional information available

Transport by sea

DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this

section is exceeded

DOT Vessel Stowage Other : 40 - Stow "clear of living quarters"

Subsidiary risks (IMDG) : 6.1

Air transport

DOT Quantity Limitations Passenger aircraft/rail : 1 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

Subsidiary risk (IATA) : 6.1

SECTION 15: Regulatory information

15.1. US Federal regulations

JOHNSEN'S SPRAY DE-ICER 32 FL.OZ.	
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard
	Fire hazard
	Immediate (acute) health hazard

Methanol (67-56-1)

Subject to reporting requirements of United States SARA Section 313 Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on the United States SARA Section 302

Listed on the United States SARA Section 355
SARA Section 311/312 Hazard Classes

Immediate (acute) health hazard Delayed (chronic) health hazard Fire hazard

2-Propanol (67-63-0)

Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Fire hazard

Ethylene Glycol (107-21-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313

SARA Section 311/312 Hazard Classes

Immediate (acute) health hazard

SARA Section 313 - Emission Reporting 100 %

Sodium-2(3H)-Benzothiazolethione, Conc=50%, Aqueous Solution (2492-26-4)

SARA Section 311/312 Hazard Classes Immediate (acute) health hazard Delayed (chronic) health hazard

15.2. International regulations

CANADA

JOHNSEN'S SPRAY DE-ICER 32 FL.OZ.		
WHMIS Classification	Class B Division 2 - Flammable Liquid	
Methanol (67-56-1)		
Listed on the Canadian DSL (Domestic Substances List)		
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects	
2-Propanol (67-63-0)		
Listed on the Canadian DSL (Domestic Substance	es List)	
WHMIS Classification	Class B Division 2 - Flammable Liquid	

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Ethylene Glycol (107-21-1)

EU-Regulations

Methanol (67-56-1)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

2-Propanol (67-63-0)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Ethylene Glycol (107-21-1)

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

F; R11

T; R23/24/25

T; R39/23/24/25

Full text of R-phrases: see section 16

15.2.2. National regulations

Methanol (67-56-1)

Listed on the Canadian IDL (Ingredient Disclosure List)

2-Propanol (67-63-0)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Ethylene Glycol (107-21-1)

15.3. US State regulations

ER 32 FL.OZ. 65 - Carcinogens List	Nie				
65 - Carcinogens List	NIa				
U.S California - Proposition 65 - Carcinogens List		No			
U.S California - Proposition 65 - Developmental Toxicity		No			
U.S California - Proposition 65 - Reproductive Toxicity - Female		No			
U.S California - Proposition 65 - Reproductive Toxicity - Male		No			
State or local regulations		U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL)			
U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)		
Yes	No	No			
U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)		
No	No	No			
U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)		
No	No	No			
U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)		
No	No	No			
	65 - Reproductive 65 - Reproductive U.S California - Proposition 65 - Developmental Toxicity Yes U.S California - Proposition 65 - Developmental Toxicity No U.S California - Proposition 65 - Developmental Toxicity No U.S California - Proposition 65 - Developmental Toxicity No U.S California - Proposition 65 - Developmental Toxicity	65 - Reproductive No U.S California - Proposition U.S California - Proposition 65 -	65 - Reproductive No U.S California - Proposition 65 - Maximum Allowable Dose U.S California - Proposition 65 - Maximum Allowable Dose U.S California - Proposition 65 - Reproductive Toxicity - Female Ves No No No U.S California - Proposition 65 - Reproductive Toxicity - Male U.S California - Proposition 65 - Reproductive Toxicity - Proposition 65 - Reproductive Toxicity - Reproductive Toxicity - Proposition 65 - Reproductive Toxicity - Re		

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Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Sodium-2(3H)-Benzothiazolethione, Conc=50%, Aqueous Solution (2492-26-4)						
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)		
No	No	No	No			

Methanol (67-56-1)

State or local regulations

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

New Jersey Right-to-Know

Florida Right to Know

U.S. - Massachusetts - Right To Know List

U.S. - Pennsylvania - RTK (Right to Know) List

2-Propanol (67-63-0)

State or local regulations

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

SECTION 16: Other information

Other information : None.

Full text of H-phrases:

H225	Highly flammable liquid and vapor
H300	Fatal if swallowed
H301	Toxic if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness
H370	Causes damage to organs

NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt

medical attention is given.

NFPA fire hazard : 3 - Liquids and solids that can be ignited under almost all

ambient conditions.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 3 Serious Hazard
Physical : 0 Minimal Hazard

Personal Protection : B

SDS US (GHS HazCom 2012) - TCC

The Supplier identified in Section 1 of this MSDS has evaluated this product and certifies it to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product

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