

Safety Data Sheet

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

Revision date: 03/07/2017 Supersedes: 09/17/2015 Version: 1.2

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

1.1. Product identifier

Product form : Substance

Trade name : JOHNSEN'S ISOPROPYL GAS LINE ANTI FREEZE 12 FL.OZ.

 CAS No
 : 67-63-0

 Product code
 : 2962

 Formula
 : C3H8O

Synonyms : 1-methylethanol / 1-methylethyl alcohol / 2-hydroxypropane / 2-propanol,anhydrous / 2-propyl

alcohol / Al3-01636 / alcojel / alcosolve / AVANTIN / AVANTINE / caswell No 507 / chromar (=2-propanol) / combi-schutz / CORONA WIRE CLEANER (=2-propanol) / CTL R-53 reducer / dimethyl carbinol / DISK DRIVE HEAD CLEANING KIT (=2-propanol) / ethyl carbinol / hartosol / hydroxypropane / imsol A / IPA SGL / IPA T1 / IPA USP / IPA, anhydrous / IPA-EG / isoethylcarbinol / isohol / lsopropanol (isopropyl alcohol) / isopropanol, anhydrous / isopropyl alcohol / isopropyl alcohol, anhydrous / KENCO #880-T FLUX THINNER (=2-propanol) / LENS CLENS #3 (=2-propanol) / lutosol / normal-propan-2-ol / n-propan-2-ol / perspirit / perspirit / pertohol / PRO / propan-2-ol / propyl alcohol (=sec-propyl alcohol) / pseudo-propyl alcohol / secondary-propyl alcohol / sec-propyl alcohol / spectrar / STCC 4904205 / sterisol hand disinfectant / takineocol / TEXPADS / visco 1152 / XEROX FILM REMOVER

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

Use of the substance/mixture : Gas Line Antifreeze

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 Eye Irrit. 2A H319 STOT SE 3 H336

Full text of H statements : see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)





GHS02

GHS07

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H225 - Highly flammable liquid and vapor H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

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 P261 - Avoid breathing dust,fume,gas,mist,vapor spray P264 - Wash affected areas thoroughly after handling P271 - Use only outdoors or in a well-ventilated area

P280 - Wear protective gloves, protective clothing, eye protection, face protection

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

skin with water/shower

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

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P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P312 - Call a POISON CONTROL CENTER, doctor, if you feel unwell. P337+P313 - If eye irritation persists: Get medical advice/attention P370+P378 - In case of fire: See Section 5.1 Extinguishing Media 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

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

local, regional, national, international regulations.

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

Substance

Name	Product identifier	%	GHS-US classification
2-Propanol (Main constituent)	(CAS No) 67-63-0	> 95	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336

Full text of H-phrases: see section 16

Mixture

Not applicable

The exact percentage is a trade secret.

SECTION 4: First aid measures

Description of first aid measures

First-aid measures general

: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital. Never give alcohol to drink.

First-aid measures after inhalation

First-aid measures after skin contact

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

Rinse with water. Soap may be used. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists.

First-aid measures after eye contact

Rinse immediately with plenty of water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

First-aid measures after ingestion

Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Give activated charcoal. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital. Doctor: gastric lavage.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries

: If you feel unwell, seek medical advice.

Symptoms/injuries after inhalation

: EXPOSURE TO HIGH CONCENTRATIONS: Coughing. Dry/sore throat. Central nervous system depression. Dizziness. Headache. Narcosis.

Symptoms/injuries after skin contact

: Dry skin.

Symptoms/injuries after eye contact

: Irritation of the eve tissue.

Symptoms/injuries after ingestion

AFTER ABSORPTION OF HIGH QUANTITIES: Central nervous system depression. Headache. Dilation of the blood vessels. Low arterial pressure. Nausea. Vomiting. Abdominal pain. Disturbed motor response. Disturbances of consciousness. FOLLOWING SYMPTOMS MAY APPEAR LATER: Body temperature fall. Slowing respiration.

Chronic symptoms

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Red skin. Dry skin. Itching. Cracking of the skin. Skin rash/inflammation. Impaired memory.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

: Water spray. Polyvalent foam. Alcohol-resistant foam. BC powder. Carbon dioxide.

Unsuitable extinguishing media

: Solid water jet ineffective as extinguishing medium.

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5.2. Special hazards arising from the substance or mixture

Fire hazard : DIRECT FIRE HAZAF

: DIRECT FIRE HAZARD. Highly flammable. Gas/vapour flammable with air within explosion limits. INDIRECT FIRE HAZARD. May be ignited by sparks. Gas/vapour spreads at floor level:

ignition hazard.

Explosion hazard : DIRECT EXPLOSION HAZARD. Gas/vapour explosive with air within explosion limits.

INDIRECT EXPLOSION HAZARD. may be ignited by sparks. Reactions with explosion

hazards: see "Reactivity Hazard".

Reactivity : Upon combustion: CO and CO2 are formed. Violent to explosive reaction with (strong)

oxidizers. Prolonged storage/in large quantities: may form peroxides.

5.3. Advice for firefighters

Firefighting instructions : Cool tanks/drums with water spray/remove them into safety. Do not move the load if exposed to

heat.

Protection during firefighting : Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use

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

SMOK

6.1.1. For non-emergency personnel

Protective equipment : Gloves. Safety glasses.

Emergency procedures : Keep upwind. Mark the danger area. Consider evacuation. Seal off low-lying areas. Close

doors and windows of adjacent premises. Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliances and lighting equipment. Keep containers closed.

Wash contaminated clothes.

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 spreading in sewers.

6.3. Methods and material for containment and cleaning up

For containment : Contain release

: Contain released substance, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Dam up the liquid spill. Try to reduce evaporation. Measure the concentration of the explosive gas-air mixture. Dilute/disperse combustible gas/vapour with water curtain. Provide equipment/receptacles with earthing. Do

not use compressed air for pumping over spills.

Methods for cleaning up : Take up liquid spill into absorbent material, e.g.: dry sand/earth/vermiculite or powdered

limestone. Scoop absorbed substance into closing containers. See "Material-handling" for suitable container materials. Damaged/cooled tanks must be emptied. Do not use compressed air for pumping over spills. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash

clothing and equipment after handling.

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

: Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Handle uncleaned empty containers as full ones. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Do not use compressed air for pumping over. Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Observe normal hygiene standards. Keep container tightly closed.

Measure the concentration in the air regularly. Work under local exhaust/ventilation.

Wash affected areas thoroughly after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

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

Storage conditions

Hygiene measures

: Keep only in the original container in a cool, well ventilated place away from : Keep in fireproof place. Keep container tightly closed.

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Incompatible products : Strong bases. Strong acids.

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

Heat-ignition : KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.

Prohibitions on mixed storage : KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) acids. (strong) bases. amines.

halogens.

Storage area : Store in a cool area. Store in a dry area. Ventilation at floor level. Fireproof storeroom. Provide

for an automatic sprinkler system. Provide for a tub to collect spills. Provide the tank with

earthing. May be stored under nitrogen. Meet the legal requirements

Special rules on packaging : SPECIAL REQUIREMENTS: closing. with pressure relief valve. dry. clean. correctly labelled.

meet the legal requirements. Secure fragile packagings in solid containers.

Packaging materials : SUITABLE MATERIAL: stainless steel. monel steel. carbon steel. copper. nickel. bronze. glass.

Teflon. polyethylene. polypropylene. zinc. MATERIAL TO AVOID: steel with rubber inner lining.

aluminium.

7.3. Specific end use(s)

Follow Label Directions.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

JOHNSEN'S ISOPROPYL GAS LINE ANTI FREEZE 12 FL.OZ. (67-63-0)		
USA ACGIH	ACGIH TWA (mg/m³)	980 mg/m³
USA ACGIH	ACGIH TWA (ppm)	400 ppm
USA ACGIH	ACGIH STEL (mg/m³)	1225 mg/m³
USA ACGIH	ACGIH STEL (ppm)	500 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	980 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	400 ppm

8.2. Exposure controls

Appropriate engineering controls : Local exhaust venilation, vent hoods.

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





Materials for protective clothing : GIVE EXCELLENT RESISTANCE: butyl rubber. nitrile rubber. viton.

polyethylene/ethylenevinylalcohol. GIVÉ GOOD RESISTANCE: neoprene. GIVE LESS RESISTANCE: PVC. neoprene/natural rubber. GIVE POOR RESISTANCE: natural rubber.

polyethylene. PVA.

Hand protection : Gloves

Eye protection : Safety glasses.
Skin and body protection : Protective clothing.

Respiratory protection : Wear gas mask with filter type A if conc. in air > exposure limit.

Environmental exposure controls : Avoid release to the environment.

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: LiquidAppearance: Liquid.Molecular mass: 60.10 g/molColor: Colourless.

Odor : Alcohol odour. Stuffy odour. Mild odour.

Odor threshold : 3 - 610 ppm

8 - 1499 mg/m³
: No data available

pH : No data ava

Relative evaporation rate (butyl acetate=1) : 2.3
Relative evaporation rate (ether=1) : 21
Melting point : -88 °C

Freezing point : No data available Boiling point : 82 °C (1013 hPa)

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: 12 °C Flash point Critical temperature : 235 °C : 399 °C Auto-ignition temperature

Decomposition temperature : No data available Flammability (solid, gas) : No data available Vapor pressure : 44 hPa (20 °C) : 60.2 hPa (25 °C) Vapor pressure at 50 °C Critical pressure : 47600 hPa

Relative vapor density at 20 °C : 2.1 Relative density : 0.79 Relative density of saturated gas/air mixture : 1.05 Specific gravity / density : 785 kg/m³

Solubility Soluble in water. Soluble in ethanol. Soluble in ether. Soluble in acetone. Soluble in oils/fats. Soluble in chloroform.

Water: Complete Ethanol: Complete Ether: Complete Acetone: soluble

Log Pow : 0.05 (Weight of evidence approach; Other; 25 °C)

Log Kow : No data available Viscosity, kinematic : 2.5316 mm²/s (25 °C) : 0.0020 Pa.s (25 °C) Viscosity, dynamic Explosive properties : No data available : No data available Oxidizing properties **Explosion limits** 2 - 13 vol % 50 - 335 g/m³

Other information

Minimum ignition energy : 0.65 mJ Specific conductivity : 5.8 µS/m Saturation concentration : 106 g/m³ VOC content : 100 %

Other properties : Gas/vapour heavier than air at 20°C. Clear. Volatile.

SECTION 10: Stability and reactivity

10.1. Reactivity

Upon combustion: CO and CO2 are formed. Violent to explosive reaction with (strong) oxidizers. Prolonged storage/in large quantities: may form peroxides.

10.2. **Chemical stability**

Stable under normal conditions.

Possibility of hazardous reactions

Not established.

Conditions to avoid

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

10.5. Incompatible materials

Strong acids. Strong bases.

Hazardous decomposition products

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

SECTION 11: Toxicological information

Information on toxicological effects 11.1.

Acute toxicity : Not classified

JOHNSEN'S ISOPROPYL GAS LINE ANTI FREEZE 12 FL.OZ. (\f)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)	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Causes serious eye irritation.	
Respiratory or skin sensitization	: Not classified	
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Germ cell mutagenicity : Not classified Based on available data, the classification criteria are not met

: Not classified Carcinogenicity

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IARC group

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : May cause drowsiness or dizziness.

Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and

symptoms

Symptoms/injuries after inhalation

: Based on available data, the classification criteria are not met.

EXPOSURE TO HIGH CONCENTRATIONS: Coughing. Dry/sore throat. Central nervous

system depression. Dizziness. Headache. Narcosis.

: Dry skin. Symptoms/injuries after skin contact

Symptoms/injuries after eye contact Irritation of the eye tissue.

Symptoms/injuries after ingestion AFTER ABSORPTION OF HIGH QUANTITIES: Central nervous system depression.

> Headache. Dilation of the blood vessels. Low arterial pressure. Nausea. Vomiting. Abdominal pain. Disturbed motor response. Disturbances of consciousness. FOLLOWING SYMPTOMS

MAY APPEAR LATER: Body temperature fall. Slowing respiration.

: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Red skin. Dry skin. Itching. Cracking Chronic symptoms

of the skin. Skin rash/inflammation. Impaired memory.

SECTION 12: Ecological information

Toxicity

Ecology - general : Not classified as dangerous for the environment according to the criteria of Directive 67/548/EEC. Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.

: Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). Not included Ecology - air

in the list of fluorinated greenhouse gases (Regulation (EC) No 842/2006). TA-Luft Klasse 5.2.5.

Ground water pollutant. Not harmful to fishes (LC50(96h) >1000 mg/l). Not harmful to Ecology - water invertebrates (Daphnia). Not harmful to algae (EC50 (72h) >1000 mg/l). Inhibition of activated

sludge.

JOHNSEN'S ISOPROPYL GAS LINE ANTI FREEZE 12 FL.OZ. (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)

12.2. Persistence and degradability

,		
JOHNSEN'S ISOPROPYL GAS LINE ANTI FREEZE 12 FL.OZ. (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	

12.3. **Bioaccumulative potential**

JOHNSEN'S ISOPROPYL GAS LINE ANTI FREEZE 12 FL.OZ. (67-63-0)	
Log Pow	0.05 (Weight of evidence approach; Other; 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

JOHNSEN'S ISOPROPYL GAS LINE ANTI FREEZE 12 FL.OZ. (67-63-0)	
Surface tension	0.021 N/m (25 °C)

12.5. Other adverse effects

Other information : Avoid release to the environment.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations

Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle by distillation. Remove to an authorized waste incinerator for solvents with energy recovery. Do not discharge into surface water. Obtain the consent of pollution control authorities before discharging to wastewater treatment plants.

Additional information : LWCA (the Netherlands): KGA category 03. Hazardous waste according to Directive

2008/98/EC.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

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

US DOT (ground): UN1219, Isopropyl alcohol, 3, II, Limited Quantity ICAO/IATA (air): UN1219, Isopropyl alcohol, 3, II, Limited Quantity IMO/IMDG (water): UN1219, Isopropyl alcohol, 3, II, Limited 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

T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees

celsius of the liquid during filling

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Isopropyl alcohol

Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquid



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

T4 - 2.65 178.274(d)(2) Normal........... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature

during transport, and tf is the temperature in degrees celsius of the liquid during filling

DOT Packaging Exceptions (49 CFR 173.xxx) : 4b;150
DOT Packaging Non Bulk (49 CFR 173.xxx) : 202
DOT Packaging Bulk (49 CFR 173.xxx) : 242

14.3. Additional information

Other information : No supplementary information available.

Overland transport

Packing group (ADR) : II

Class (ADR) : 3 - Flammable liquid

Hazard identification number (Kemler No.) : 33 Classification code (ADR) : F1

Hazard labels (ADR) : 3 - Flammable liquids



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Orange plates

33 1219

Tunnel restriction code (ADR) : D/E

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

EmS-No. (1) : F-E EmS-No. (2) : S-D

Air transport

DOT Quantity Limitations Passenger aircraft/rail : 5 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

SECTION 15: Regulatory information

15.1. US Federal regulations

JOHNSEN'S ISOPROPYL GAS LINE ANTI FREEZE 12 FL.OZ. (67-63-0)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Fire hazard

15.2. International regulations

CANADA

JOHNSEN'S ISOPROPYL GAS LINE ANTI FREEZE 12 FL.OZ. (67-63-0)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class B Division 2 - Flammable Liquid

EU-Regulations

JOHNSEN'S ISOPROPYL GAS LINE ANTI FREEZE 12 FL.OZ. (67-63-0)

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

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

Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336

Full text of hazard classes and H-statements : see section 16

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

F; R11 Xi; R36 R67

Full text of R-phrases: see section 16

15.2.2. National regulations

JOHNSEN'S ISOPROPYL GAS LINE ANTI FREEZE 12 FL.OZ. (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)

15.3. US State regulations

JOHNSEN'S ISOPROPYL GAS LINE ANTI FREEZE 12 FL.OZ. (67-63-0)	
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

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JOHNSEN'S ISOPROPYL GAS LINE ANTI FREEZE 12 FL.OZ. (67-63-0)	
U.S California - Proposition 65 - Reproductive Toxicity - Male	No
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

Indication of changes : Revision - See : *.

Other information : None.

Full text of H-phrases:

H225	Highly flammable liquid and vapor
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual

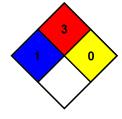
injury even if no treatment is given.

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 : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 3 Serious Hazard
Physical : 0 Minimal Hazard

Personal Protection : E

SDS US (GHS HazCom 2012) - TCC

The Supplier identified in Section 1 of this SDS 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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