

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

Product form I: Substance Frade name I: JOHNSENS ISOPROPYL GAS LINE ANTI FREEZE 12 FL.OZ. AS No I: 67-63-0 Product code I: 2962 Formula I: CHBO Synoryms I: 1-methylethanol /1-methylethyl alcohol / 2-hydroxypropane / 2-propanol, anhydrous / 2-propyil alcohol / 2-hydroxypropane / 2-propanol, anhydrous / 2-propyil alcohol / 2-hydroxypropane) / Ethyl Cathinol / I-methylethyl alcohol / 1-hydroxypropane) / Ethyl Cathinol / I-methylethyl alcohol / 2-hydroxypropane) / Ethyl Cathinol / I-methylethyl alcohol / 2-hydroxypropane) / Ethyl Cathinol / I-methylethyl alcohol / 3-hydroxy / Ethyl Cathinol / I-propyil alcohol / 1-hydroxypropane) / Ethyl Cathinol / I-specifyral / STOC 490205 / isteristol hand disinfectant / takinecool / TEXPADS / visco 1152 / XEROX FILM REMOVER 12. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture Store (Ethyl Cathinol / Ethylethylethylethylethylethylethylethyle	Image: second	Rev	/ision date: 03/07/2017 Supersedes:09/17/2015 Version: -
Product form I: Substance Trade name I: JOHNSENS ISOPROPYL GAS LINE ANTI FREEZE 12 FLOZ. AS No I: 5743-0 Product tode I: 2862 Findual I: CAIRO Synonyms I: Interhytethanol / I-methytethyl alcohol / 2-hydroxypropane / 2-propanol, ahrydrous / 2-propanol, form / ALANTINE / caswell No 607 / thromat (-2-propanol, / comb-achuz / CORONA WIRE CLEANER (-2-propanol) / CIT. R-33 reducer of disentity canyou / 1000	Product form Substance Trade name : JOHNSENS ISOPROPYL GAS LINE ANTI FREEZE 12 FL.OZ. ASA No :	SECTION 1: Identification of the	substance/mixture and of the company/undertaking
frade name : JOHNEENS ISOPROPYL GAS LINE ANTI FREEZE 12 FLOZ. SAS No : G7630 SAS NO : G76300 SAS NO :	frade name : JOHNESEN SIOPROPYL GAS LINE ANTI FREEZE 12 FLOZ. SAS No : 27430 SAS No : 27450 SAS NO : 27450	1.1. Product identifier	
2-AS No : 67-83-0 Product code : 2962 Product code : 2962 Synonyms : 1-methydethanol /1-methydethanol /1-methydethanol /1-Methydethanol /1-Agend Stacebill / Adeothal / Adeo	AS No :: 67:48-0 Product code :: 2982 Granual :: C3H80 Synonyms : I-methylethyl alcohol / 2-hydroxypropane / 12-hydroxypropane / 12-hydroxypr	Product form	: Substance
Product code : 2842 Signal Code : C3480 Synonyms :: 1-mathylethanol / 1-mathylethanol / 2-hydropyropane / 2-propandit hydros / 2-propandithydros / 2-propandit hydros / 2-propandit	Product code : 2842 Samula : C34BO Synonyma : 1-methylethanol / 1-methylethylathyl alcohol / 2-hydroxypropane / 2-propanol, anhydrous / 2-propy alcohol / A39(1586 / alcogi / alcogi / alcogi / Alcogi / Alkoni /	Trade name	: JOHNSEN'S ISOPROPYL GAS LINE ANTI FREEZE 12 FL.OZ.
Formula : CH80 Synonyms :: In-Individual CM-01507 (alcohol / 2-hydroxypropane / 2-propanel) (anchol / AD-01507 / alcohol / Synopane / 2-propanel) (anchol / Isoropane) / ehry	Formula : C4H8O Synonyms :: C4H8O Synonyms Synonyms Synonyms Synonyms Synonyms Synonym	CAS No	: 67-63-0
Synonyms : 1-methylethanol / 1-methylethyl alcohol / 2-hydroxyprogan / 2-propanol.anhydrous / 2-propanol / combischut / 2-ORONA WIRE CLEANER (E-2-propanol) / CTL R-3 reducer diverse di	Spronyms : 1methylethanol / 1methylethyl alcohol / 2hydroxyproganol 2propanol anhydrous / 2props Spronyms : 1methylethanol / 1methylethyl alcohol / 2hydroxyproganol / 2hydroxyproganol / AVANTINE / caswell 6007 / 2homor (-2propanol) / combis-shtur / 2ORONA WIRE CLEANER (-2propanol) / CTL R-53 reduce intertryl cashinol / IDSK DRIK PHE HEAD CLEANING KIT (-2propanol) / ILPS Coro / hydroxypropanol / iusol / A / IPA SGL / IPA 11 / IPA USP / IPA, antydrous / isopropi alcohol / isopropi alcohol , isopropi alcohol / isop	Product code	: 2962
alcohof / X13-01636 / alcoğie / álcosolve / AVÁTNÍY ÁVATNÍY - Časwell Né 627 / chromání (-2-propano) / combischutz / COONA WIRE CLEANER (-2-propano) / CTL R-S3 reduce dimetry cathinol / DISK DBRVE HEAD CLEANING KIT (-2-propano) / CTL R-S3 reduce alcohof / sporpey alcohol / isopropy alcohol / isopropol, anhydrous / isopropy alcohof / sporpey alcohol / sporpey alcohol / isopropol, anhydrous / isopropy alcohof / sporpey alcohol / sporpey alcohol / isopropol, anhydrous / isopropy alcohof / sporpey alcohol / sporpey alcohol / isopropol, anhydrous / isopropy alcohof / Sporpey alcohol / sporpey alcohol / isopropy alcohol / spectra / STC - 400205 / sterisol hand disinfectant / takinecod / TEXPADS / visco 1152 / XEROX FILM REMOVER 12. Relevant identified uses of the substance or mixture and uses advised against lase of the substance/mixture : Gas Line Antifezee 13. Details of the substance or mixture and uses advised against 14. Emergency number : CHEMTREC 24 Hour 1-800-424-9300, 1-703-527-3887 (International) SECTION 21 H32-276 Identification 14. Classification of the substance or mixture 3HS-US classification 3m. Lq 2 H322 rd Identified Uses action to mixture 3HS-US classification 3m. Lq 2 H322 rd Identified Uses action to the substance or mixture 3HS-US classification 3m. Lq 2 H322 rd Identified Uses action to the substance or mixture 3HS-US classification 3m. Lq 2 H322 rd Identified USE 3HS-US classification 3m. Lq 2 H322 rd Identified USE 3HS-US classification 3m. Lq 2 H32 rd Identified Identified Identified Identified 3HS-US classification 3HS-US classification 3HS-US classification 3HS-US classification 3HS-US classification 3HS-US classification 3HS-US classification 3HS-US classificat	 alcohol / AB-01636 / alcógi / álcosolv / AVATNÍV AVATNÍV (24XHTV) / Caswell N6 507 / chroniaf (E-2-propano) / combischut / COORN WIRE CLEANRE (E-2-propano) / chroniaf (E-2-propano) / combischut / COORN WIRE CLEANRE (E-2-propano) / chroniaf (E-2-propano) / chroniaf / IA-EG / IA-EG	Formula	: C3H8O
Jae of the substance/mixture : Gas Line Antifreeze 1.3. Details of the supplier of the safety data sheet Technical Chemical Company O., BOX 139 2.6. Cox 139 2.6. Cox 139 2.6. Cox 149 2.7. Label elements 2.8. Cox 149 2.9. Cox 149 2.9. Cox 149 2.9. Cox 149 2.9. Cox 1	Jae of the substance/mixture : Gas Line Antifreeze 1.3. Dotails of the supplier of the safety data sheet Fechnical Company 2.0, BOX 138 2.1. Chemical Company 3.0, BOX 138 2.1. Chemical Company 3.0, BOX 138 2.1. Chemical Science or mixture 3.1. Classification of the substance or mixture 3.1. Classification 3.1. Classification 3.2. Label elements 3.2. Label elements 3.3. Company 3.3. Classification 3.3.	Synonyms	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 / hartoso / hydroxypropane / imsol A / IPA SGL / IPA T1 / IPA USP / IPA, anhydrous / IPA-EG / isoethylcarbinol / isohol / Isopropanol (isopropyl alcohol) / isopropanol, anhydrous / isopropyl alcohol / isopropyl alcohol, anhydrous / KENCO #880-T FLUX THINNER (=2-propanol) / LEN CLENS #3 (=2-propanol) / lutosol / normal-propan-2-ol / n-propan-2-ol / perspirit / perspirit / petrohol / PRO / propan-2-ol / propyl alcohol (=sec-propyl alcohol) / pseudo-propyl alcohol / secondary-propyl alcohol / sec-propanol / sec-propyl alcohol / spectrar / STCC 4904205 /
13. Details of the supplier of the safety data sheet Technical Company 20, 80X 139 20, 80X 139 2leburne, Texas 76033 7817-645-6088 14. Emergency telephone number Emergency number : CHEMTREC 24 Hour 1-800-424-9300, 1-703-527-3887 (International) SECTION 2: Hazards identification 1am. Liq. 2 H225 igen Lip	13. Details of the supplier of the safety data sheet Fernical Company 20, B0X 139 20, B0X 139 20ebume, Texas 76033 7817-645-0088 Farst 50033 7817-645-0088 Farst 50033 21. Classification of the substance or mixture CHEMTREC 24 Hour 1-800-424-9300, 1-703-527-3887 (International) SECTION 2: Hazards Identification Energency telephone number 21. Classification of the substance or mixture SHS-US classification 3m. Liq. 2 H225 Energency 1425 System 2 H336 Full Statements : see section 16 22. Label elements Energency 1425 SHS-US labeling Energency 1425 4zard statements (GHS-US) : Danger 4zard statements (GHS-US) : Danger 4zard statements (GHS-US) : P125 - Highly flammable liquid and vapor H336 May cause drowsiness or dizziness - No smoking P240 - Keep away from heat,sparks.open flames, hot surfaces No smoking P240 - FourtBond container and receiving equipment P242 - Stude benchy dub benchy dub benchy dub benchy dub benchy dub benchy dub transformer in a well-way or in a well-way container and receiving equipment P241 - Use explosion-proof electrical, ventilation, lighting equipment P242 - Take precautionary messures against static disc	1.2. Relevant identified uses of the	substance or mixture and uses advised against
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20. BOX 139 Cbehume, Fixas 76033 F817-645-6088 I.4. Emergency 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 SHS-US classification Flam, Liq, 2 H225 Signal Word (CHS-US) : Signal word (CHS-US) : Signal word (CHS-US) : Hazard statements (GHS-US) : *** : *** : **** : ***** : ***** : ****** : ********** : ************************************	20. BOX 139 Lebume, Fixas 76033 F817-645-6088 L4. Emergency telephone number Emergency number : CHEMTREC 24 Hour 1-800-424-9300, 1-703-527-3887 (International) SECTION 2: Hazards identification : 21. Classification of the substance or mixture SHS-US classification : Iam, Liq. 2: H225 : Eye Int; 2A. H319 : STOT SE 3: H336 : Full text of H statements : see section 16 : 22. Label elements SHS-US labeling : tazard pictograms (GHS-US) : Hazard statements (GHS-US) : H225 - Highly flammable liquid and vapor H326 - May cause drowsiness or dizzlness Precautionary statements (GHS-US) : P210 - Keep away from heat, sparks, open flames, hot surfaces No smoking P233 - R240 - ConumBord Guadontariant and receiving equipment P244 - GroundBord container and receiving equipment P241 - Ween prove lectricity, eventilation discharge P243 - Hay non-sparking tools P244 - Use only outdoors in a weil-ventilated area P260 - Wear protective gloves, protective colim	1.3. Details of the supplier of the sa	ifety data sheet
Emergency number : CHEMTREC 24 Hour 1-800-424-9300, 1-703-527-3887 (International) SECTION 2: Hazards identification 21. Classification of the substance or mixture SHS-US classification Tam. Liq. 2 H225 Sye Irrit. 2A H319 STOT SE 3 H336 Full text of H statements : see section 16 22. Label elements SHS-US labeling Hazard pictograms (GHS-US) : : Signal word (GHS-US) tazard statements (GHS-US) : : Danger Hazard statements (GHS-US) Precautionary statements (GHS-US) : : H225 Highly flammable liquid and vapor H316 - Causes serious eye irritation H336 - May cause drowsiness or dizzness Precautionary statements (GHS-US) : : P210 - Keep away from heat, sparks, open flames, hot surfaces No smoking P233 - Keep container tightly closed P243 - Take precautionary measures against static discharge P244 - Use only non-sparking tools P243 - Take precautionary measures against static discharge P246 - Woah fracted areas thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P260 - Waap rotective gloves. protective clothing, eye protection, face protection P334-P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower	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 CHEMTREC 24 Hour 1-800-424-9300, 1-703-527-3887 (International) 2.1. Classification Tam. Liq. 2 H225 Eye Intri. 2A H319 STOT SE 3 H336 Tull text of H statements : see section 16 2.2. Label elements SHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US) Precautionary massures against static discharge Precautionary massures against static	Technical Chemical Company P.O. BOX 139 Cleburne, Texas 76033 T 817-645-6088	
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		len P3 P3 P4 P4 P4 P4 P5	ses, if present and easy to do. Cor 12 - Call a POISON CONTROL CE 37+P313 - If eye irritation persists: 70+P378 - In case of fire: See Sec 03+P233 - Store in a well-ventilate 03+P235 - Store in a well-ventilate 05 - Store locked up	ntinue rinsing ENTER, doctor, if yo Get medical advice tion 5.1 Extinguishind place. Keep conta d place. Keep cool to appropriate was	e/attention ng Media
2.3.	Other hazards				
Other ha classifica	zards not contributing to the	: No	ne under normal conditions.		
2.4.	Unknown acute toxicity (GHS U	5)			
	available	-,			
SECTI	ON 3: Composition/Informa	tion on	ingredients		
3.1.	Substance		ingreatento		
-			Draduat identifiar	0/	CHC US alogaitigation
Name 2-Propa	nol		Product identifier (CAS No) 67-63-0	% > 95	GHS-US classification Flam. Lig. 2, H225
(Main cor				2.00	Eye Irrit. 2A, H319
Full terret	of Li physical and and the 40				STOT SE 3, H336
	of H-phrases: see section 16				
3.2.	Mixture				
Not appli					
	ct percentage is a trade secret.				
	ON 4: First aid measures				
4.1.	Description of first aid measures measures general				te airway and respiration. Respiratory
		wit Vo wa	n laboured breathing: half-seated. miting: prevent asphyxia/aspiratior rming up). Keep watching the victin rsical strain. Depending on the vict	Victim in shock: on pneumonia. Preve m. Give psychologic	nt cooling by covering the victim (no cal aid. Keep the victim calm, avoid
	measures after inhalation measures after skin contact	: Rir		,,	consult a doctor/medical service. nical) neutralizing agents. Take victim
First-aid	measures after eye contact	: Rir	a doctor if irritation persists. use immediately with plenty of wate nthalmologist if irritation persists.	er. Do not apply neu	tralizing agents. Take victim to an
First-aid	measures after ingestion	: Rir vor Co	se mouth with water. Immediately niting. Give activated charcoal. Ca	Il Poison Informatio	e lots of water to drink. Do not induce n Centre (www.big.be/antigif.htm). tion of large quantities: immediately to
4.2.	Most important symptoms and e	ffects, bot	h acute and delayed		
Sympton	ns/injuries	: If y	ou feel unwell, seek medical advic	e.	
Sympton	ns/injuries after inhalation		POSURE TO HIGH CONCENTRA		Dry/sore throat. Central nervous
	ns/injuries after skin contact		/ skin.		
	ns/injuries after eye contact		ation of the eye tissue.		
Sympton	ns/injuries after ingestion	He pai		els. Low arterial pre urbances of conscio	ssure. Nausea. Vomiting. Abdominal ousness. FOLLOWING SYMPTOMS
Chronic	symptoms		I CONTINUOUS/REPEATED EXP he skin. Skin rash/inflammation. In		: Red skin. Dry skin. Itching. Cracking
4.3.	Indication of any immediate med	lical attent	ion and special treatment neede	ed	
No additi	ional information available				
SECTI	ON 5: Firefighting measure	S			
5.1.	Extinguishing media				
Suitable	extinguishing media	: Wa	ter spray. Polyvalent foam. Alcoho	ol-resistant foam. B	C powder. Carbon dioxide.
ountable					•

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5.2. Special hazards arising from the	substance or mixture
Fire hazard	: 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 me	easures
	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	: 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 contain	ment and cleaning up
For containment	: 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 fro ignition sources/sparks. Observe normal hygiene standards. Keep container tightly closed. Measure the concentration in the air regularly. Work under local exhaust/ventilation.
Hygiene measures	: 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 wit mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, includi	ng 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 equipment.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Keep in fireproc place. Keep container tightly closed.
07/03/2017	EN (English US) 3/

Safety Data Sheet

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

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: Expos	SECTION 8: Exposure controls/personal protection				
8.1. Control parar	neters				
JOHNSEN'S ISOPRO	PYL GAS LINE ANTI FREEZE 12 FL.OZ. (67-63-0)				
USA ACGIH	ACGIH TWA (mg/m ³)	980 mg/m³			
USA ACGIH	ACGIH TWA (ppm)	400 ppm			
USA ACGIH	ACGIH STEL (mg/m ³)	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			
	atuala.				

8.2. Exposure controls Appropriate engineering controls

Personal protective equipment

: Local exhaust venilation, vent hoods.

: Gloves. Safety glasses. Avoid all unnecessary exposure.



Materials for protective clothing	: GIVE EXCELLENT RESISTANCE: butyl rubber. nitrile rubber. viton. polyethylene/ethylenevinylalcohol. GIVE 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	: Liquid
Appearance	: Liquid.
Molecular mass	: 60.10 g/mol
Color	: Colourless.
Odor	: Alcohol odour. Stuffy odour. Mild odour.
Odor threshold	: 3 - 610 ppm 8 - 1499 mg/m³
рН	: No data available
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)

Safety Data Sheet

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

according to Federal Register / Vol. 77, No. 58 / Monda	y, March 20, 2012 / Rules and Regulations
Flash point	: 12 °C
Critical temperature	: 235 °C
Auto-ignition temperature	: 399 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: 44 hPa (20 °C)
Vapor pressure at 50 °C	: 60.2 hPa (25 °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)
Viscosity, dynamic	: 0.0020 Pa.s (25 °C)
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: 2 - 13 vol % 50 - 335 g/m ³
9.2. 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 un	der normal conditions.
10.3.	Possibility of hazardous reactions
Not estab	lished.
10.4.	Conditions to avoid
Direct sur	nlight. Extremely high or low temperatures. Open flame.
10.5.	Incompatible materials
Strong ac	ids. Strong bases.
10.6.	Hazardous decomposition products
Toxic fur	ne Carbon monoxide. Carbon dioxide. May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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	
07/00/00/7		

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

Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met				
Carcinogenicity	: Not classified				
JOHNSEN'S ISOPROPYL GAS LINE ANTI FREEZE 12 FL.OZ. (67-63-0)					
IARC group	3				
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	: Based on available data, the classification criteria are not met.				
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 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.				
Chronic symptoms	: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Red skin. Dry skin. Itching. Crackin of the skin. Skin rash/inflammation. Impaired memory.				

SECTION 12: Ecological informat	ion
12.1. 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.
Ecology - air	: Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 842/2006). TA-Luft Klasse 5.2.5.
Ecology - water	: Ground water pollutant. Not harmful to fishes (LC50(96h) >1000 mg/l). Not harmful to invertebrates (Daphnia). Not harmful to algae (EC50 (72h) >1000 mg/l). Inhibition of activated sludge.
JOHNSEN'S ISOPROPYL GAS LINE ANT	TI 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 ANT	TI 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 ANT	TI 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 ANT	TI 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.

Other information

: Avoid release to the environment.

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

SECTION 13: Disposal considerations				
13.1. Waste treatme Waste disposal recomme		:	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 material	S	:	Avoid release to the environment.	
SECTION 14: Tran		DN		
US DOT (ground):	UN1219, Isopropyl alco	ho	I, 3, II, Limited Quantity	
ICAO/IATA (air):	UN1219, Isopropyl alco		· · · · · ·	
IMO/IMDG (water):			I, 3, II, Limited Quantity	
Special Provisions:	IB2 - Authorized IBCs: I Requirement: Only liqui C (1.3 bar at 131 F) are T4 - 2.65 178.274(d)(2) TP1 - The maximum de	Me ids au No egre	tal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional 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 uthorized ormal	
14.2. UN proper sh	ipping 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	
DOT Packaging Exceptions (49 CFR 173.xxx)		:	4b;150	
DOT Packaging Non Bul	k (49 CFR 173.xxx)	:	202	
DOT Packaging Bulk (49	,	:	242	
14.3. Additional infor	mation			
Other information Overland transport		:	No supplementary information available.	
Packing group (ADR)			II	
Class (ADR)			3 - Flammable liquid	
			33	
			F1	
Hazard labels (ADR)		:	3 - Flammable liquids	

Safety Data Sheet

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

-			
	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 (49 CFR 173.27)	:	5 L

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			

Safety Data Sheet

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

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	: B

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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