

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Б linia 05/00/0047 -1-40/04/0045 ~

Version: 1.2

	Revision date: 05/02/2017	Supersedes:12/04/2015	Version: 1.2
SECTION 1: Identification of	f the substance/mixture and	of the company/undertaking	
1.1. Product identifier			
Product form	: Mixture		
Trade name	: JOHNSEN'S A/C FLU	SH 32 FL.OZ.	
Product code	: 6545-6		
I.2. Relevant identified uses of	of the substance or mixture and us	es advised against	
Jse of the substance/mixture	: A/C Flush		
1.3. Details of the supplier of	the safety data sheet		
Technical Chemical Company			
P.O. BOX 139 Cleburne, Texas 76033 Γ 817-645-6088			
I.4. Emergency telephone nu	mber		
Emergency number	: CHEMTREC 24 Hour	1-800-424-9300, 1-703-527-3887 (International)	
SECTION 2: Hazards identif	ication		
2.1. Classification of the subs			
GHS-US classification			
Flam. Liq. 2 H225			
Skin Irrit. 2 H315			
Eye Irrit. 2 H319 Repr. 2 H361			
STOT SE 3 H336			
STOT RE 2 H373			
Asp. Tox. 1 H304			
Full text of H statements : see sectior	n 16		
2.2. Label elements			
GHS-US labelling Hazard pictograms (GHS-US)	•		
	_	GHS08	
Signal word (GHS-US)	: Danger		
Hazard statements (GHS-US)	H315 - Causes skin ir H319 - Causes seriou H336 - May cause dro H361 - Suspected of o	swallowed and enters airways ritation s eye irritation wsiness or dizziness lamaging fertility or the unborn child	
Precautionary statements (GHS-US)	: P201 - Obtain special	mage to organs through prolonged or repeated expo	
	P210 - Keep away fro P233 - Keep containe P240 - Ground/Bond of P241 - Use explosion- P242 - Use only non-s P243 - Take precautio P260 - Do not breathe P261 - Avoid breathin P264 - Wash affected P271 - Use only outdo P280 - Wear protectiv P301+P310 - If swallo P302+P352 - If on ski	container and receiving equipment proof electrical, ventilating, lighting equipment	ing ection pr,physician.
	skin with water/showe P304+P340 - If inhale P305+P351+P338 - If lenses, if present and		e for breathing

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		 P312 - Call a POISON CONTROL CENTER, doctor, if you feel unwell. P314 - Get medical advice/attention if you feel unwell P321 - Specific treatment: See section 4.1 on SDS P331 - Do NOT induce vomiting P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse 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.
2.3.	Other hazards	

Other hazards not contributing to the classification

: None under normal conditions.

2.4. Unknown acute toxicity (GHS US)

75 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 75 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Heptane, Branched Cyclic	(CAS No) 426260-76-6	72 - 75	Flam. Liq. 1, H224 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
n-Heptane	(CAS No) 142-82-5	18.75 - 33.75	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2-Propanol	(CAS No) 67-63-0	10 - 30	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Toluene	(CAS No) 108-88-3	0.75 - 3	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304

The exact percentage is a trade secret.

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures general	ver give anything by mouth to an unconscious person. IF exposed or dical advice/attention.	concerned: Get
First-aid measures after inhalation	move victim to fresh air and keep at rest in a position comfortable for ISON CENTER or doctor/physician if you feel unwell.	breathing. Call a
First-aid measures after skin contact	use skin with water/shower. Remove/Take off immediately all contam in plenty of soap and water. Wash contaminated clothing before reuse curs: Get medical advice/attention.	8
First-aid measures after eye contact	se cautiously with water for several minutes. Remove contact lenses Continue rinsing. If eye irritation persists: Get medical advice/attenti n plenty of water. Obtain medical attention if pain, blinking or redness	on. Rinse immediately
First-aid measures after ingestion	se mouth. Do NOT induce vomiting. Immediately call a POISON CE ctor/physician.	NTER or
4.2. Most important symptoms and effe	h acute and delayed	
Symptoms/injuries	spected of damaging fertility or the unborn child. Causes damage to	organs.
Symptoms/injuries after inhalation	y cause drowsiness or dizziness. May cause allergy or asthma symp iculties if inhaled.	otoms or breathing
Symptoms/injuries after skin contact	uses skin irritation. Itching. Skin rash/inflammation. Red skin.	
Symptoms/injuries after eye contact	uses serious eye irritation. Inflammation/damage of the eye tissue. Ir sue. Redness of the eye tissue.	ritation of the eye
Symptoms/injuries after ingestion	y be fatal if swallowed and enters airways.	

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4.3. Indication of any immediate med	lical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	S
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 vapour.
Explosion hazard	: May form flammable/explosive vapour-air mixture.
5.3. 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.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release m	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	: 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	
	otify authorities if liquid enters sewers or public waters.
6.3. Methods and material for contain For containment	: Dam up the liquid spill. Contain released substance, pump into suitable containers. Plug the
1 of containment	leak, cut off the supply.
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 perso	nal protection.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Handle empty containers with care because residual vapours are flammable.
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or
Hygiene measures	 smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No open flames. No smoking. Use only non-sparking tools. Obtain special instructions . Do not handle until all safety precautions have been read and understood. Avoid breathing dust,fume,gas,mist,vapor spray. Use only outdoors or in a well-ventilated area. Wash affected areas thoroughly after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Take off immediately all contaminated clothing and wash it before reuse. Always wash hands after handling the product. 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, inclu	uding 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 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)	

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SECTION 8: Exposure controls/personal protection		
8.1. Control paran	neters	
Toluene (108-88-3)		
USA ACGIH	ACGIH TWA (mg/m³)	75 mg/m³
USA ACGIH	ACGIH TWA (ppm)	20 ppm
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm
USA OSHA	OSHA PEL (Ceiling) (ppm)	300 ppm
n-Heptane (142-82-5)	1	
USA ACGIH	ACGIH TWA (ppm)	400 ppm (Heptane, all isomers; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
USA ACGIH	ACGIH STEL (ppm)	500 ppm (Heptane, all isomers; USA; Short time value; TLV - Adopted Value)
Heptane, Branched C	yclic (426260-76-6)	
USA ACGIH	ACGIH TWA (ppm)	400 ppm
USA ACGIH	ACGIH STEL (ppm)	500 ppm
USA OSHA	OSHA PEL (TWA) (ppm)	500 ppm
2-Propanol (67-63-0)		
USA ACGIH	ACGIH TWA (mg/m³)	980 mg/m³
USA ACGIH	ACGIH TWA (ppm)	400 ppm
USA ACGIH	ACGIH STEL (mg/m ³)	1225 mg/m ³
USA ACGIH	ACGIH STEL (ppm)	500 ppm
USA OSHA	OSHA PEL (TWA) (mg/m ³)	980 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	400 ppm
8.2. Exposure cor	ntrols	

Appropriate engineering controls

- : Local exhaust venilation, vent hoods . Ensure good ventilation of the work station.
- Personal protective equipment
- : Gloves. Safety glasses. Avoid all unnecessary exposure.



Materials for protective clothing	: GIVE EXCELLENT RESISTANCE:
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. Wear respiratory protection.
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 a	and chemical properties
Physical state	: Liquid
Appearance	: Liquid.
Colour	: Colourless to light yellow.
Odour	: Solvent-like odour. Lemon.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 82 °C
Flash point	: 2 °C
Auto-ignition temperature	: No data available

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Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: 2.1
Relative density	: 0.79
Relative density of saturated gas/air mixture	: 1.05
Density	: 785 kg/m ³
Solubility	: Poorly soluble in water. Water: Poor Ethanol: Complete Ether: Complete Acetone: soluble
Log Pow	: No data available
_og Kow	: No data available
/iscosity, kinematic	: 2.5316 mm²/s (25 °C)
/iscosity, dynamic	: 0.002 Pa.s (25 °C)
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 2 - 13 vol % 50 - 335 g/m³
9.2. Other information	
VOC content	: 100 %
Gas group	: Liquefied gas
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Highly flammable liquid and vapour. May form fl	ammadie/explosive vapour-air mixture.
10.3. Possibility of hazardous reactions	
Not established.	
10.4. Conditions to avoid	
Direct sunlight. Extremely high or low temperatu	res. Open flame.
10.5. Incompatible materials	
Strong acids. Strong bases.	
10.6. Hazardous decomposition products	s
Toxic fume Carbon monoxide. Carbon dioxide	
SECTION 11: Toxicological information	ion
11.1. Information on toxicological effects	
TT.T. Information on toxicological effects	
Acute toxicity	: Not classified as hazardous
Toluene (108-88-3)	
LD50 oral rat	5580 mg/kg bodyweight (Rat; Equivalent or similar to OECD 401; Literature study; 5580 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rabbit	> 5000 mg/kg bodyweight LD50 quoted as 14.1 mL/kg (12267 mg/kg using density of 0.87)
LC50 inhalation rat (mg/l)	> 28.1 mg/l/4h (Rat; Air, Literature study)
n-Heptane (142-82-5)	
LD50 oral rat	> 15000 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; >5000 mg/kg bodyweight; Rat; Read-across)
LD50 dermal rabbit	> 3160 mg/kg (Rabbit; Literature study; Equivalent or similar to OECD 402; >2000 mg/kg bodyweight; Rabbit; Read-across)
LC50 inhalation rat (mg/l)	103 mg/l/4h (Rat; Literature study)
LC50 inhalation rat (ppm)	25000 ppm/4h (Rat; Literature study)

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Heptane, Branched Cyclic (426260-76-6)		
LC50 inhalation rat (mg/l)	103 mg/l/4h (Rat; Literature study)	
LC50 inhalation rat (ppm)	25000 ppm/4h (Rat; Literature study)	
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)	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Causes serious eye irritation.	
Respiratory or skin sensitisation	: Not classified as hazardous	
Germ cell mutagenicity	: Not classified as hazardous Based on available data, the classification criteria are not met	
Carcinogenicity	: Not classified as hazardous	
Toluene (108-88-3)		
IARC group	3	
2-Propanol (67-63-0)		
IARC group	3	
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.	
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness.	
Specific target organ toxicity (repeated exposure)	: May cause damage to organs through prolonged or repeated exposure.	
Aspiration hazard	: May be fatal if swallowed and enters airways.	
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.	
Symptoms/injuries after inhalation	: May cause drowsiness or dizziness. May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
Symptoms/injuries after skin contact	: Causes skin irritation. Itching. Skin rash/inflammation. Red skin.	
Symptoms/injuries after eye contact	: Causes serious eye irritation. Inflammation/damage of the eye tissue. Irritation of the eye tissue. Redness of the eye tissue.	
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways.	

SECTION 12: Ecological information

12.1. Toxicity

n-Heptane (142-82-5)	
EC50 Daphnia 1	0.2 mg/l (LC50; Other; 96 h; Chaetogammarus marinus; Semi-static system; Salt water; Experimental value)
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)
12.2. Persistence and degradability	
JOHNSEN'S A/C FLUSH 32 FL.OZ.	
Persistence and degradability	Not established.
Toluene (108-88-3)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.
Biochemical oxygen demand (BOD)	2.15 g O ₂ /g substance
Chemical oxygen demand (COD)	2.52 g O ₂ /g substance
ThOD	3.13 g O ₂ /g substance
BOD (% of ThOD)	0.69
n-Heptane (142-82-5)	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Biodegradable in the soil. Low potential for adsorption in soil. Photolysis in the air. Not established.
Biochemical oxygen demand (BOD)	1.92 g O ₂ /g substance
Chemical oxygen demand (COD)	0.06 g O ₂ /g substance
ThOD	3.52 g O ₂ /g substance
BOD (% of ThOD)	> 0.5 (5 days; Literature study)
Heptane, Branched Cyclic (426260-76-6)	
Persistence and degradability	May cause long-term adverse effects in the environment.

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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	2.4 g O ₂ /g substance
2.3. Bioaccumulative potential	
JOHNSEN'S A/C FLUSH 32 FL.OZ.	
Bioaccumulative potential	Not established.
Toluene (108-88-3)	
BCF fish 2	90 (BCF; 72 h; Leuciscus idus; Static system; Fresh water)
Log Pow	2.73 (Experimental value; Other; 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
n-Heptane (142-82-5)	
BCF other aquatic organisms 1	552 (BCF; BCFBAF v3.00)
Log Pow	4.66 (Experimental value; 4.5; Literature study)
Bioaccumulative potential	Potential for bioaccumulation ($4 \ge Log \text{ Kow} \le 5$). Not established.
Heptane, Branched Cyclic (426260-76-6)	
Bioaccumulative potential	Not established.
2-Propanol (67-63-0)	
Log Pow	0.05 (Weight of evidence approach; Other; 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
2.4. Mobility in soil	
Toluene (108-88-3)	
Surface tension	0.03 N/m (20 °C)
n-Heptane (142-82-5)	
Surface tension	0.019 N/m (25 °C; 0.020 N/m; 20 °C)
Log Koc	log Koc,SRC PCKOCWIN v2.0; 2.38; Calculated value
2-Propanol (67-63-0)	
Surface tension	0.021 N/m (25 °C)
2.5. Other adverse effects	
Dther information	: Avoid release to the environment.
SECTION 13: Disposal consideration	S
3.1. Waste treatment methods	
Product/Packaging 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. Handle empty containers with care because residual vapours are flammable.

Additional information Ecology - waste materials

- Handle empty containers with care because residual vapours are flam
- : Avoid release to the environment. Hazardous waste due to toxicity.

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SECTION 14: Transport information

	DR / RID / IMDG / IATA / ADN
US DOT (ground):	UN1993, Flammable liquids, n.o.s. (Heptane, 2-Propanol), 3, II, Limited Quantity
ICAO/IATA (air):	UN1993, Flammable liquids, n.o.s. (Heptane, 2-Propanol), 3, II, Limited Quantity
IMO/IMDG (water):	UN1993, Flammable liquids, n.o.s. (Heptane, 2-Propanol), 3 (Marine Pollutant-Heptane), II, Limited Quantity
Special Provisions:	 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). 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, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T4 - 2.65 178.274(d)(2) Normal
14.2. UN proper s	shipping name

14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Flammable liquids, n.o.s. (Heptane, 2-Propanol)
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)	 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HD2, 31HD2 and 31HH2). 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, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T4 - 2.65 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
14.3. Additional information	
Other information	: No supplementary information available.
Overland transport	
No additional information available	
Transport by sea	
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Subsidiary risk (IMDG)	: Marine Pollutant-Heptane
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Air transport			
DOT Quantity Limitations Passenger aircraft/rail : 60 L (49 CFR 173.27)			
DOT Quantity Limitations Cargo aircraft only (49 : 220 L CFR 175.75)			
SECTION 15: Regulatory information			
15.1. US Federal regulations			
JOHNSEN'S A/C FLUSH 32 FL.OZ.			
SARA Section 311/312 Hazard Classes	Fire hazard Delayed (chronic) health hazard Immediate (acute) health hazard		
Toluene (108-88-3)			
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			
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Fire hazard Immediate (acute) health hazard		
Heptane, Branched Cyclic (426260-76-6)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard		
2-Propanol (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			

15.2. International regulations

CANADA

JOHNSEN'S A/C FLUSH 32 FL.OZ.		
WHMIS Classification Class B Division 2 - Flammable Liquid		
Toluene (108-88-3)		
Listed on the Canadian DSL (Domestic Substances List)		
WHMIS Classification	Class B Division 2 - Flammable Liquid 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	
Heptane, Branched Cyclic (426260-76-6)		
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects	
2-Propanol (67-63-0)		
Listed on the Canadian DSL (Domestic Substances List)		
WHMIS Classification Class B Division 2 - Flammable Liquid		

EU-Regulations

Toluene (108-88-3)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
Heptane, Branched Cyclic (426260-76-6)	
2-Propanol (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]

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

F; R11 Xn; R65 Xi; R36/38 N; R50/53 R67 Full text of R-phrases: see section 16 **15.2.2.** National regulations

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Toxicity - Male

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Heptane, Branched Cyclic (426260-76-6)		
All components are either listed on the US TSCA Inventory, or are not regulated under TSCA under 40 CFR 720.30.		
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)		
15.3. US State regulations		
JOHNSEN'S A/C FLUSH 32 FL.OZ.		
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	No	

State or local regulations		U.S California - Proposition 65		
Toluene (108-88-3)				
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	Yes	No	No	
n-Heptane (142-82-5)				
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	
Heptane, Branched Cyclic	(426260-76-6)			
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	
2-Propanol (67-63-0)				
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	
Toluene (108-88-3)				

State or local regulations

U.S. - California - Proposition 65

U.S. - New Jersey - Special Health Hazards Substances List

- New Jersey Right-to-Know
- U.S. Massachusetts Right To Know List
- Rhode Island Right to Know U.S. Michigan Critical Materials List
- U.S. New Jersey Environmental Hazardous Substances List
- U.S. Illinois Toxic Air Contaminants
- U.S. New York Reporting of Releases Part 597 List of Hazardous Substances
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard 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

Indication of changes

: Revision - See : *.

Safety Data Sheet

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

Other in	nformation	: None.	
Full tex	t of H-statements:		
	H224		Extremely flammable liquid and vapour
	H225		Highly flammable liquid and vapour
	H304		May be fatal if swallowed and enters airways
	H315		Causes skin irritation
	H319		Causes serious eye irritation
	H336		May cause drowsiness or dizziness
	H361		Suspected of damaging fertility or the unborn child
	H373		May cause damage to organs through prolonged or repeated exposure
	H400		Very toxic to aquatic life
	H410		Very toxic to aquatic life with long lasting effects
	H412		Harmful to aquatic life with long lasting effects

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 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

Disclaimer: The information and recommendations contained herein are based upon tests believed to be reliable. However, the manufacturer/distributor of this product does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage may be required. The manufacturer/distributor assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.