

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 09/18/2015 1

Version: 1.1

SECTION 1: Identification of the substance/mixture and of the company/undertaking		
1.1. Product identifier		
Product form	: Mixture	
Trade name	: JOHNSEN'S NON-CHLORINATATED BPC 5 GALLON	
Product code	: 2415	
1.2. Relevant identified uses of t	he substance or mixture and uses advised against	
Use of the substance/mixture	: Brake Parts Cleaner	

SECTION 2: Hazards identification

Classification of the substance or mixture 2.1.

GHS-US classification

Flam. Liq. 2	H225
Acute Tox. 3 (Oral)	H301
Acute Tox. 3 (Dermal)	H311
Acute Tox. 4 (Inhalation:dust,mist)	H332
Skin Irrit. 2	H315
Eye Irrit. 2A	H319
Repr. 2	H361
STOT SE 1	H370
STOT SE 3	H336
STOT RE 2	H373
Full toxt of H atatamanta : and agati	on 16

Full text of H statements : see section 16

Label elements 2.2.

GHS-US labeling

Signal word (GHS-US)

Hazard statements (GHS-US)

Precautionary statements (GHS-US)

Hazard pictograms (GHS-US)



- : Danger
 - : H225 Highly flammable liquid and vapor
 - H301+H311 Toxic if swallowed or in contact with skin
 - H315 Causes skin irritation
 - H319 Causes serious eye irritation
 - H332 Harmful if inhaled
 - H336 May cause drowsiness or dizziness
 - H361 Suspected of damaging fertility or the unborn child
 - H370 Causes damage to organs
 - H373 May cause damage to organs through prolonged or repeated exposure
 - : P201 Obtain special instructions
 - P202 Do not handle until all safety precautions have been read and understood
 - P210 Keep away from heat, sparks, open flames, hot surfaces. No smoking
 - P233 Keep container tightly closed
 - P240 Ground/bond container and receiving equipment
 - P241 Use explosion-proof electrical, ventilating, lighting equipment
 - P242 Use only non-sparking tools
 - P243 Take precautionary measures against static discharge
 - P260 Do not breathe dust,fumes,gas,mist,vapor spray P261 Avoid breathing dust,fume,gas,mist,vapor spray

 - P264 Wash affected areas thoroughly after handling
 - P270 Do not eat, drink or smoke when using this product
 - P271 Use only outdoors or in a well-ventilated area
 - P280 Wear protective gloves, protective clothing, eye protection, face protection

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		 P301+P310 - If swallowed: Immediately call a poison control center, doctor,physician, P302+P352 - If on skin: Wash with plenty of soap and water P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P307+P311 - If exposed: Call a poison center/doctor P308+P313 - If exposed or concerned: Get medical advice/attention 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 P330 - Rinse mouth P332+P313 - If skin irritation occurs: Get medical advice/attention P362+P364 - Take off contaminated clothing P362+P364 - Take off contaminated clothing and wash it before reuse P363 - Wash contaminated clothing before reuse P370+P378 - In case of fire: See Section 5.1 Extinguishing Media P403+P235 - Store in a well-ventilated place. Keep cool 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 h classific	azards not contributing to the ation	: None under normal conditions.
2.4.	Unknown acute toxicity (GHS US)	

No data available

SECTION 3: Composition/Information on ingredients

3.1. Substance

Not applicable

3.2. Mixture			
Name	Product identifier	%	GHS-US classification
Acetone	(CAS No) 67-64-1	50 - 70	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Methanol	(CAS No) 67-56-1	10 - 30	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:dust,mist), H331 STOT SE 1, H370
Toluene	(CAS No) 108-88-3	10 - 30	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	: Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention. Call a POISON CENTER or doctor/physician.
First-aid measures after inhalation	 Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Immediately call a poison center or doctor/physician. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Immediately call a poison center or doctor/physician.
4.2. Most important symptoms and effect	cts, both acute and delayed
Symptoms/injuries	: Suspected of damaging fertility or the unborn child. Causes damage to organs.
Symptoms/injuries after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause drowsiness or dizziness.

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Symptoms/injuries after skin contact	epeated exposure to this material can result in absorption through skin cau ealth hazard. Toxic in contact with skin. Causes skin irritation.	ising significant
Symptoms/injuries after eye contact	ritation of the eye tissue. Inflammation/damage of the eye tissue. Redness auses serious eye irritation.	of the eye tissue.
Symptoms/injuries after ingestion	oxic if swallowed. Swallowing a small quantity of this material will result in s azard.	serious health

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

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No additional information available		
SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.	
Unsuitable extinguishing media	: Do not use a heavy water stream.	
5.2. Special hazards arising from the	substance or mixture	
Fire hazard	: Highly flammable liquid and vapor.	
Explosion hazard	: May form flammable/explosive vapor-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 me	Pasures	
	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		
	tify authorities if liquid enters sewers or public waters.	
6.3. Methods and material for contain	ment and cleaning up	
For containment	 Dam up the liquid spill. Contain released substance, pump into suitable containers. Plug the 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 personal protection.		
SECTION 7: Handling and storage		
7.1 Precautions for safe handling		

7.1. Precautions for safe handling	
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Avoid breathing dust,fume,gas,mist,vapor spray. Obtain special instructions . Do not handle until all safety precautions have been read and understood. Do not breathe dust,fumes,gas,mist,vapor spray.
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash affected areas thoroughly after handling. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Separate working clothes from town clothes. Launder separately. Remove contaminated clothes. Always wash hands after handling the product.
7.2. Conditions for safe storage, includ	ing 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.
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Incompatible products

: Strong bases. Strong acids.

Incompatible materials

- : Sources of ignition. Direct sunlight. Heat sources.
- 7.3. Specific end use(s)

Follow Label Directions.

SECTION 8: Exposure controls/personal protection s

8.1.	Control	parameter

Foluene (108-88-3)		
USA ACGIH	ACGIH TWA (mg/m ³)	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
Benzene (71-43-2)	· ·	· · ·
USA ACGIH	ACGIH TWA (ppm)	1 ppm
USA ACGIH	ACGIH STEL (ppm)	5 ppm
USA ACGIH	ACGIH Ceiling (ppm)	25 ppm
USA OSHA	OSHA PEL (TWA) (ppm)	1 ppm
USA OSHA	OSHA PEL (Ceiling) (ppm)	5 ppm
Methanol (67-56-1)		
USA ACGIH	ACGIH TWA (mg/m ³)	262 mg/m³
USA ACGIH	ACGIH TWA (ppm)	200 ppm (Methanol; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
USA ACGIH	ACGIH STEL (mg/m ³)	328 mg/m³
USA ACGIH	ACGIH STEL (ppm)	250 ppm
USA OSHA	OSHA PEL (TWA) (mg/m ³)	260 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm
Acetone (67-64-1)		
USA ACGIH	ACGIH TWA (mg/m ³)	1188 mg/m³
USA ACGIH	ACGIH TWA (ppm)	500 ppm
USA ACGIH	ACGIH STEL (mg/m ³)	1782 mg/m³
USA ACGIH	ACGIH STEL (ppm)	750 ppm
USA OSHA	OSHA PEL (TWA) (mg/m ³)	2400 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm

Appropriate engineering controls

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



Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.
Other information	: Do not eat, drink or smoke during use.
SECTION 9: Physical and chemical p	properties
9.1. Information on basic physical and c	chemical properties
Physical state	: Liquid

Appearance Color

Odor

: Solvent-like odour.

: Colourless to light yellow.

: Liquid.

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Odor threshold	: No data available		
pH	: No data available		
Relative evaporation rate (butyl acetate=1)	: No data available		
Melting point	: No data available		
Freezing point	: No data available		
Boiling point	: 56 °C (Lowest Component)		
Flash point	: -19 °C		
Auto-ignition temperature	: 465 °C (Lowest Component)		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: No data available		
Vapor pressure	: No data available		
Relative vapor density at 20 °C	: No data available		
Relative density	: 0.86		
Solubility	: Poorly soluble in water.		
Log Pow	No data available		
Log Kow	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
Explosive properties	: No data available		
Oxidizing properties	: No data available		
Explosion limits	: No data available		
9.2. Other information VOC content	: 44.9 %		
VOC content	. 44.9 %		
SECTION 10: Stability and reactivity			
10.1. Reactivity			
No additional information available			
10.2. Chemical stability			
Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.			
10.3. Possibility of hazardous reactions Not established			
Not established.			
10.4. Conditions to avoid			
Direct sunlight. Extremely high or low temperatures. Open flame.			
10.5. Incompatible materials			
Strong acids. Strong bases.			
10.6. Hazardous decomposition products			
Toxic fume Carbon monoxide. Carbon dioxide. N	lay release flammable gases.		
SECTION 11: Toxicological informatic			
11.1. Information on toxicological effects			
Acute toxicity	: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation:dust,mist: Harmful if inhaled.		
Toluene (108-88-3)			
LD50 oral rat	5580 mg/kg body weight (Rat; Equivalent or similar to OECD 401; Literature study; 5580 mg/kg bodyweight; Rat; Experimental value)		
LD50 dermal rabbit	> 5000 mg/kg body weight 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)		
Benzene (71-43-2)			
LD50 oral rat	> 930 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; > 2000 mg/kg bodyweight; Rat; Experimental value)		
LD50 dermal rabbit	> 8240 mg/kg (Rabbit; Experimental value; 21 CFR 191.10; > 9.4; Rabbit)		
LC50 inhalation rat (mg/l)	43.767 mg/l/4h (Rat; Experimental value)		
LC50 inhalation rat (ppm)	13700 ppm/4h (Rat; Experimental value)		
Methanol (67-56-1)			
LDE0 oral rat	>= 2529 mg/kg hady weight application as $50%$ agreeous solution		

LD50 oral rat

>= 2528 mg/kg body weight application as 50% aqueous solution

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Methanol (67-56-1)	
LD50 dermal rabbit	17100 mg/kg corresponding to 20 ml/kg bw according to the authors
LC50 inhalation rat (mg/l)	128.2 mg/l/4h Air
Acetone (67-64-1)	
LD50 oral rat	5800 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value)
LD50 dermal rabbit	20000 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402)
LC50 inhalation rat (mg/l)	71 mg/l/4h (Rat; Experimental value; 76 mg/l/4h; Rat; Experimental value)
LC50 inhalation rat (ppm)	30000 ppm/4h (Rat; Experimental value)
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Toluene (108-88-3)	
IARC group	3
Benzene (71-43-2)	
IARC group	1
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
Specific target organ toxicity (single exposure)	: Causes damage to organs. May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	Not classified
Potential Adverse human health effects and symptoms	 Based on available data, the classification criteria are not met. Harmful if inhaled. Toxic if swallowed. Toxic in contact with skin.
Symptoms/injuries after inhalation	 Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause drowsiness or dizziness.
Symptoms/injuries after skin contact	Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin. Causes skin irritation.
Symptoms/injuries after eye contact	: Irritation of the eye tissue. Inflammation/damage of the eye tissue. Redness of the eye tissue. Causes serious eye irritation.
Symptoms/injuries after ingestion	 Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

SECTION 12: Ecological information

12.1. Toxicity

Benzene (71-43-2)			
LC50 fish 1	5.3 mg/l (LC50; 96 h; Salmo gairdneri)		
EC50 Daphnia 2	10 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna)		
Threshold limit algae 1	100 mg/l (ErC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value)		
Acetone (67-64-1)			
EC50 Daphnia 2	12600 mg/l (LC50; Other; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)		
Methanol (67-56-1)			
LC50 fish 1	15400 mg/l (LC50; EPA 660/3 - 75/009; 96 h; Lepomis macrochirus; Flow-through system; Fresh water; Experimental value)		
EC50 Daphnia 1	> 10000 mg/l (EC50; DIN 38412-11; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)		
LC50 fish 2	10800 mg/l (LC50; 96 h; Salmo gairdneri)		
Acetone (67-64-1)			
LC50 fish 1	6210 mg/l (96 h; Pimephales promelas; Nominal concentration)		
EC50 Daphnia 1	8800 mg/l (48 h; Daphnia pulex)		
LC50 fish 2	5540 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)		
TLM fish 1	13000 ppm (96 h; Gambusia affinis; Turbulent water)		
TLM fish 2	> 1000 ppm (96 h; Pisces)		
Threshold limit other aquatic organisms 1	3000 mg/l (Plankton)		
Threshold limit other aquatic organisms 2	28 mg/l (Protozoa)		
Threshold limit algae 1	7500 mg/l (Scenedesmus quadricauda; pH = 7)		
Threshold limit algae 2	3400 mg/l (48 h; Chlorella sp.)		

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JOHNSEN'S NON-CHLORINATATED BP	
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
Benzene (71-43-2)	
Persistence and degradability	Readily biodegradable in water. Ozonation in water. Forming sediments in water. Biodegradable in the soil. Low potential for adsorption in soil. Photolysis in the air.
Biochemical oxygen demand (BOD)	2.18 g O ₂ /g substance
Chemical oxygen demand (COD)	2.15 g O ₂ /g substance
ThOD	3.10 g O ₂ /g substance
BOD (% of ThOD)	0.70
Acetone (67-64-1)	
Persistence and degradability	Not established.
Methanol (67-56-1)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.
Biochemical oxygen demand (BOD)	$0.6 - 1.12 \text{ g } O_2 \text{ /g substance}$
Chemical oxygen demand (COD)	1.42 g O_2 /g substance
ThOD	1.5 g O_2 /g substance
BOD (% of ThOD)	0.8 (Literature study)
Acetone (67-64-1)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under
Fersistence and degradability	anaerobic conditions. No (test)data on mobility of the substance available. Not established.
Biochemical oxygen demand (BOD)	1.43 g O ₂ /g substance
Chemical oxygen demand (COD)	1.92 g O ₂ /g substance
ThOD	2.20 g O ₂ /g substance
BOD (% of ThOD)	(20 day(s)) 0.872
2.3. Bioaccumulative potential	
JOHNSEN'S NON-CHLORINATATED BP	C 5 GALLON
Bioaccumulative potential	Not established.
Toluene (108-88-3)	
101uene (108-88-3)	
· · · · · · · · · · · · · · · · · · ·	00 (PCF) 72 by Lauriague idue: Statio system: Erech water)
BCF fish 2	90 (BCF; 72 h; Leuciscus idus; Static system; Fresh water)
BCF fish 2 Log Pow	2.73 (Experimental value; Other; 20 °C)
BCF fish 2 Log Pow Bioaccumulative potential	
BCF fish 2 Log Pow Bioaccumulative potential Benzene (71-43-2)	2.73 (Experimental value; Other; 20 °C) Low potential for bioaccumulation (BCF < 500).
BCF fish 2 Log Pow Bioaccumulative potential Benzene (71-43-2) BCF fish 1	2.73 (Experimental value; Other; 20 °C) Low potential for bioaccumulation (BCF < 500).
BCF fish 2 Log Pow Bioaccumulative potential Benzene (71-43-2) BCF fish 1 BCF fish 2	2.73 (Experimental value; Other; 20 °C) Low potential for bioaccumulation (BCF < 500).
BCF fish 2 Log Pow Bioaccumulative potential Benzene (71-43-2) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1	2.73 (Experimental value; Other; 20 °C) Low potential for bioaccumulation (BCF < 500).
BCF fish 2 Log Pow Bioaccumulative potential Benzene (71-43-2) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow	2.73 (Experimental value; Other; 20 °C) Low potential for bioaccumulation (BCF < 500).
BCF fish 2 Log Pow Bioaccumulative potential Benzene (71-43-2) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow	2.73 (Experimental value; Other; 20 °C) Low potential for bioaccumulation (BCF < 500).
BCF fish 2 Log Pow Bioaccumulative potential Benzene (71-43-2) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential	2.73 (Experimental value; Other; 20 °C) Low potential for bioaccumulation (BCF < 500).
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BCF fish 2 Log Pow Bioaccumulative potential Benzene (71-43-2) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential Acetone (67-64-1) Bioaccumulative potential Methanol (67-56-1)	2.73 (Experimental value; Other; 20 °C) Low potential for bioaccumulation (BCF < 500).
BCF fish 2 Log Pow Bioaccumulative potential Benzene (71-43-2) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential Acetone (67-64-1) Bioaccumulative potential Methanol (67-56-1) BCF fish 1	2.73 (Experimental value; Other; 20 °C) Low potential for bioaccumulation (BCF < 500).
BCF fish 2 Log Pow Bioaccumulative potential Benzene (71-43-2) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential Acetone (67-64-1) Bioaccumulative potential Methanol (67-56-1) BCF fish 1 Log Pow	2.73 (Experimental value; Other; 20 °C) Low potential for bioaccumulation (BCF < 500).
BCF fish 2 Log Pow Bioaccumulative potential Benzene (71-43-2) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential Acetone (67-64-1) Bioaccumulative potential Methanol (67-56-1) BCF fish 1 Log Pow Bioaccumulative potential	2.73 (Experimental value; Other; 20 °C) Low potential for bioaccumulation (BCF < 500).
BCF fish 2 Log Pow Bioaccumulative potential Benzene (71-43-2) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential Acetone (67-64-1) Bioaccumulative potential Methanol (67-56-1) BCF fish 1 Log Pow Bioaccumulative potential Acetone (67-64-1)	2.73 (Experimental value; Other; 20 °C) Low potential for bioaccumulation (BCF < 500).
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Toluene (108-88-3)		
Surface tension	0.03 N/m (20 °C)	
Benzene (71-43-2)		
Surface tension	0.029 N/m (20 °C)	
Log Koc	Koc,134.1; QSAR	
Methanol (67-56-1)		
Surface tension	0.023 N/m (20 °C)	
Log Koc	Koc,PCKOCWIN v1.66; 1; Calculated value	
Acetone (67-64-1)		
Surface tension	0.0237 N/m (20 °C)	
12.5. Other adverse effects		
Other information	Avoid release to the environment.	

SECTION 13: Disposal consideration	15
13.1. Waste treatment methods	
Waste disposal recommendations	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.
Additional information	: Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials	: Avoid release to the environment. Hazardous waste due to toxicity.

SECTION 14: Transport information

14.2 LIN proper chipping pr

In accordance with ADR	/ RID / IMDG / IATA / ADN
US DOT (ground):	UN1993, Flammable liquids, n.o.s. (Acetone, Methanol, Toluene) (-19C CC), 3, II
ICAO/IATA (air):	UN1993, Flammable liquids, n.o.s. (Acetone, Methanol, Toluene) (-19C CC), 3 , II
IMO/IMDG (water):	UN1993, Flammable liquids, n.o.s. (Acetone, Methanol, Toluene) (-19C CC), 3 , II
Special Provisions:	IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized T7 - 4 178.274(d)(2) Normal

14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Flammable liquids, n.o.s. (Acetone, Methanol, Toluene) (-19C CC)
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT)	: 3 - Flammable liquid
DOT Symbols	: G - Identifies PSN requiring a technical name
Packing group (DOT)	: II - Medium Danger
DOT Special Provisions (49 CFR 172.102)	 IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized T7 - 4 178.274(d)(2) Normal

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OOT Packaging Exceptions (49 CFR 173.xxx)	: 150
OOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
OOT Packaging Bulk (49 CFR 173.xxx)	: 242
4.3. Additional information	
	: No supplementary information available.
Overland transport	
No additional information available	
Fransport by sea	
	: 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" or passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded
Air transport	
OOT Quantity Limitations Passenger aircraft/rail 49 CFR 173.27)	: 5L
OOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
SECTION 15: Regulatory information	
5.1. US Federal regulations	
JOHNSEN'S NON-CHLORINATATED BPC 5 G	ALLON
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard
	Fire hazard Immediate (acute) health hazard
Toluene (108-88-3)	
Subject to reporting requirements of United State Listed on the United States TSCA (Toxic Substa Listed on the United States SARA Section 302	
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Fire hazard Immediate (acute) health hazard
Benzene (71-43-2)	
Listed on the United States TSCA (Toxic Substa Subject to reporting requirements of United State	
Methanol (67-56-1)	
Subject to reporting requirements of United State Listed on the United States TSCA (Toxic Substa Listed on the United States SARA Section 302 Listed on the United States SARA Section 355	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard Fire hazard
Acetone (67-64-1)	
Listed on the United States TSCA (Toxic Substa Subject to reporting requirements of United State	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Fire hazard Delayed (chronic) health hazard
5.2. International regulations	
CANADA	
JOHNSEN'S NON-CHLORINATATED BPC 5 G	ALLON
WHMIS Classification	Class B Division 2 - Flammable Liquid
Toluene (108-88-3)	
Listed on the Canadian DSL (Domestic Substan	ces 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

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

Methanol (67-56-1)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects
Acetone (67-64-1)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects

EU-Regulations

Toluene (108-88-3)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Benzene (71-43-2)
Methanol (67-56-1)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Acetone (67-64-1)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)- Directive 79/831/EEC, sixth Amendment of Directive 67/548/EEC (dangerous substances) 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]

Repr.Cat.3; R63 F; R11 T; R23/24/25 T; R39/23/24/25 Xn; R48/20 Xi; R36/38 Full text of R-phrases: see section 16

15.2.2. National regulations

Benzene (71-43-2)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECI (Korean Existing Chemicals Inventory)

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

Listed on the AICS (Australian Inventory of Chemical Substances)

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

Methanol (67-56-1)

Listed on the Canadian IDL (Ingredient Disclosure List)

Acetone (67-64-1)

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

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on the AICS (Australian Inventory of Chemical Substances)

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

Listed on the Korean ECL (Existing Chemicals List)

15.3. US State regulations

5	
JOHNSEN'S NON-CHLORINATATED BPC 5 GALLON	l
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	No
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	No
State or local regulations	U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

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Toluene (108-88-3)				
U.S California -	U.S California -	U.S California -	U.S California -	Non-significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
		Female	Male	
No	Yes	No	No	
Benzene (71-43-2)				1
U.S California -	U.S California -	U.S California -	U.S California -	Non-significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity -	
		Female	Male	
Yes	Yes	No	Yes	
Acetone (67-64-1)				
U.S California -	U.S California -	U.S California -	U.S California -	Non-significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	()
		Female	Male	
No	No	Na	Na	
No	No	No	No	
Methanol (67-56-1)				
U.S California -	U.S California -	U.S California -	U.S California -	Non-significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
		Female	Male	
No	Yes	No	No	
Acetone (67-64-1)	1			
U.S California -	U.S California -	U.S California -	U.S California -	Non-significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
		Female	wale	
Vaa	No	No	Ne	
Yes	110	NO	No	
			NO	
Toluene (108-88-3)			NO	
Toluene (108-88-3) State or local regulations			INO	
Toluene (108-88-3) State or local regulations U.S California - Propositior	1 n 65 - Maximum Allowable Do	bse Levels (MADL)	INO	
Toluene (108-88-3) State or local regulations U.S California - Propositior U.S New Jersey - Special I	1 n 65 - Maximum Allowable Do	bse Levels (MADL)		
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Safety Data Sheet

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

SECTION 16: Other information

Other information		: None.	
Full tex	t of H-phrases:		
	H225		Highly flammable liquid and vapor
	H301		Toxic if swallowed
	H304		May be fatal if swallowed and enters airways
	H311		Toxic in contact with skin
	H315		Causes skin irritation
	H319		Causes serious eye irritation
	H331		Toxic if inhaled
	H332		Harmful if inhaled
	H336		May cause drowsiness or dizziness
	H361		Suspected of damaging fertility or the unborn child
	H370		Causes damage to organs
	H373		May cause damage to organs through prolonged or repeated exposure

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

: B

Personal Protection

SDS US (GHS HazCom 2012) - TCC

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

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.