

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 01/30/2017 Supersedes:05/15/2017

Version: 1.2

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

1.1.	Product identifier	
Product	: form	: Mixture
Trade n	ame	: JOHNSEN'S THROTTLE BODY & AIR INTAKE CLEANER 10 OZ.
Product	code	: 4720
1.2.	Relevant identified uses of the sub	ostance or mixture and uses advised against

Use of the substance/mixture

: Throttle & Intake Cleaner

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Flam. Aerosol 2H223Compressed gasH280Skin Irrit. 2H315Eye Irrit. 2AH319Repr. 2H361STOT SE 3H336STOT RE 2H373

Full text of H statements : see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)

Signal word (GHS-US) Hazard statements (GHS-US)

Precautionary statements (GHS-US)

- : Warning
- : H223 Flammable aerosol

GHS02

- H280 Contains gas under pressure; may explode if heated
- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H336 May cause drowsiness or dizziness

GHS04

- H361 Suspected of damaging fertility or the unborn child
- H373 May cause damage to organs through prolonged or repeated exposure

GHS07

GHS08

- : 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
 - P211 Do not spray on an open flame or other ignition source
 - P251 Pressurized container: Do not pierce or burn, even after use
 - 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
- P271 Use only outdoors or in a well-ventilated area
- P280 Wear protective gloves, protective clothing, eye protection, face protection
- P302+P352 If on skin: Wash with plenty of soap and water
- 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
- 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
- P321 Specific treatment: See section 4.1 on SDS P332+P313 - If skin irritation occurs: Get medical advice/attention

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		P337+P313 - If eye irritation persists P362+P364 - Take off contaminated P403+P233 - Store in a well-ventilate P405 - Store locked up P410+P403 - Protect from sunlight. S P410+P412 - Protect from sunlight. I P501 - Dispose of contents/containe local, regional, national, international	clothing and wash it t ed place. Keep contain Store in a well-ventilat Do not expose to temp r to appropriate waste	before reuse ner tightly closed ed place beratures exceeding 50 °C/122 °F
2.3.	Other hazards			
Other I classifi		: Contains gas under pressure; may e	xplode if heated.	
2.4.	Unknown acute toxicity (GHS US)			
No dat	a available			
SECT	FION 3: Composition/Information	on ingredients		
3.1.	Substance			
Not ap	plicable			
3.2.	Mixture			
Nam		Product identifier	%	GHS-US classification
	-		75	
Aceto	ne	(CAS No) 67-64-1	70 - 85	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Carbo	n Dioxide, Liquefied, Under Pressure	(CAS No) 124-38-9	10 - 30	Compressed gas, H280
Tolue	ne	(CAS No) 108-88-3	5 - 10	Flam. Liq. 2, H225

NameProduct identifier%GHS-US classificationAcetone(CAS No) 67-64-170 - 85Flam. Liq. 2, H225
Eye Irit. 2A, H319
STOT SE 3, H336Carbon Dioxide, Liquefied, Under Pressure(CAS No) 124-38-910 - 30Compressed gas, H280Toluene(CAS No) 108-88-35 - 10Flam. Liq. 2, H225
Skin Irrit. 2, H315
Repr. 2, H361
STOT SE 3, H336Heptane, Branched Cyclic(CAS No) 426260-76-63.456 - 3.6Flam. Liq. 1, H224
Skin Irrit. 2, H315
STOT SE 3, H336
Asp. Tox. 1, H304
Aquatic Chronic 3, H412n-Heptane(CAS No) 142-82-50.9 - 1.62Flam. Liq. 2, H225
Skin Irrit. 2, H316
STOT SE 3, H336
Asp. Tox. 1, H304
Aquatic Chronic 1, H410

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.
First-aid measures after inhalation	: Cough. 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	: 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. Direct contact with the eyes is likely to be irritating. 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.
4.2. Most important symptoms and effect	s, both acute and delayed
Symptoms/injuries	: Suspected of damaging fertility or the unborn child. Causes damage to organs.
Symptoms/injuries after inhalation	: Dizziness. Irritation of the respiratory tract. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Shortness of breath. May cause drowsiness or dizziness.
Symptoms/injuries after skin contact	: Itching. Red skin. Causes skin irritation.
Symptoms/injuries after eye contact	: May cause severe irritation. Irritation of the eye tissue. Inflammation/damage of the eye tissue. Redness of the eye tissue. Causes serious eye irritation.
Symptoms/injuries after ingestion	: May be harmful if swallowed and enters airways. May be fatal if swallowed and enters airways.
4.3. Indication of any immediate medical	attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

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Fire hazard : Flammable aerosol. Explosion hazard : Heat may built pressure, rupturing closed containers. spreading fire and increasing risk of burns and injuries. 5.3. Advice for firefighters Firefighting instructions : Use water spray or log for cooling exposed containers. Exercise caution when fighting any chemical fire. Frevent fire dighting water from entering environment. DO NOT Fight fire when fire reades explosives. Securate area Protection during firefighting : Due water spray or log for cooling exposed containers. Exercise caution when fighting any chemical fire. Frevent fire dighting water from entering environment. DO NOT Fight fire when fire reades explosives. Securate area SECTION 5: Accidental rolease measures : No confit fire fire area without proper protective equipment, including respiratory protection. 6.1. For non-emergency personnel : Otowas. Safety glasses. Emergency procedures : Evaluate unnecessary personnel. 6.1.2. For emergency responders Protective equipment : Equip cleanup crew with proper protection. Avoid breathing dust,fume.gas.mist.vepor spray. Emergency procedures : Store away from other materials. 6.2. Environmental precautions Protective equipment : Dom up the liquid enters severs or public waters. 6.3. Methodo and material for containment and cleaning up For	Unsuitable extinguishing media	: Do not use a heavy wa	ter stream.
Explosion hazard : Heat may built pressure, rupburing doced containers. spreading fire and increasing risk of burns and hjuries. 5.3. Advice for firefighters : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any increasing explosion. Exercise caution when fighting any increasing explosion increasing risk. The mathemating increasing explosion increasing risk from entening environment. DO NOT light fire when fire exercise explosives: Exercise equipment, including respiratory protection. Protection during frefighting ::::::::::::::::::::::::::::::::::::	5.2. Special hazards arising	from the substance or mixture	
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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 : Store away from other materials. 6.4. Reference to other sections See Heading 8. Exposure controls and personal protection. Store away from other materials. SECTION 7: Handling and storage The recautions for safe handling Additional hazards when processed : Hazardous waste due to potential risk of explosion. Pressurized container: Do not pierce or burn, even after use. Precautions for safe handling : Wash hands and other exposed areas with mild scap and water before eating, drinking or smoke yoor pont by provide good ventilation in process area to prevent formation of vapor. Do not spray on an open flame or other ignition source. Obtain special instructions . Do not handle until all safety precautions have been read and understood. Avoid breathing of withing and when leaving work. Think or smoke when using this product. Wash affected areas thoroughly after handling. Separate working clothes from town clothes. Launde separately. Wash hands and other exposed areas with mild scap and water before eating, drinking or smoking and when leaving work. 7.2. Conditions for safe storage, including any incompatibilities Technical measures : Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed. Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Do not expose t temperatures exceed	Prevent entry to sewers and public v	waters. Notify authorities if liquid enters	sewers or public waters.
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7.3. Specific end use(s) Follow Label Directions. SECTION 8: Exposure controls/personal protection 8.1. Control parameters Carbon Dioxide, Liquefied, Under Pressure (124-38-9)	Incompatible materials	: Sources of ignition. Dir	ect sunlight. Heat sources.
Follow Label Directions. SECTION 8: Exposure controls/personal protection 8.1. Control parameters Carbon Dioxide, Liquefied, Under Pressure (124-38-9)	Storage area	: Store in a well-ventilate	ed place.
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SECTION 8: Exposure controls/personal protection 8.1. Control parameters Carbon Dioxide, Liquefied, Under Pressure (124-38-9)	Follow Label Directions.		
8.1. Control parameters Carbon Dioxide, Liquefied, Under Pressure (124-38-9)			
Carbon Dioxide, Liquefied, Under Pressure (124-38-9)		rois/personal protection	
	8.1. Control parameters		
USA ACGIH ACGIH TWA (mg/m ³) 9000 mg/m ³		er Pressure (124-38-9)	
	USA ACGIH AC	CGIH TWA (mg/m³)	9000 mg/m³

EN (English US)

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Carbon Dioxide, Lique	fied, Under Pressure (124-38-9)	
USA ACGIH	ACGIH TWA (ppm)	5000 ppm (Carbon dioxide; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
USA ACGIH	ACGIH STEL (mg/m ³)	54000
USA ACGIH	ACGIH STEL (ppm)	30000 ppm
USA OSHA	OSHA PEL (TWA) (mg/m ³)	9000 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	5000 ppm
Toluene (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
n-Heptane (142-82-5)		
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 Cy	/clic (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
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
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/m³)	2400 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
8.2. Exposure cont	trole	1

8.2. Exposure controls

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.



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.
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 phys	cal and chemical properties
Physica	I state	: Gas

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according to Federal Register / Vol. 77, No. 58 / Monday	r, March 26, 2012 / Rules and Regulations
Appearance	: Liquid.
Color	: Colourless to light yellow.
Odor	: Acetone odour. Solvent-like odour.
Odor threshold	: 306 - 653 ppm 737 - 1574 mg/m³
pH	: 7
Relative evaporation rate (butyl acetate=1)	: 6
Relative evaporation rate (ether=1)	: 2
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 56 °C
Flash point	: -18 °C
Auto-ignition temperature	: 465 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: 247 hPa
Vapor pressure at 50 °C	: 828 hPa
Critical pressure	: 47010 hPa
Relative vapor density at 20 °C	: No data available
Relative density	: 0.79
Solubility	: Soluble in alcohols. Soluble in aromatic hydrocarbons. Soluble in ethanol. Soluble in ether. Soluble in heptane. Soluble in toluene. Soluble in xylene.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: 0.417 mm²/s
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available
9.2. Other information	
Saturation concentration	: 589 g/m³
VOC content	: 9.6 %
Gas group	: Compressed gas
SECTION 10: Stability and reactivity 10.1. Reactivity	
No additional information available	
10.2. Chemical stability	re: may avalade if bacted. Extreme rick of avalacian by shack, friction, firs, or other sources of
ignition.	re; may explode if heated. Extreme risk of explosion by shock, friction, fire or other sources of
10.3. Possibility of hazardous reactions Not established.	
10.4. Conditions to avoid	
Direct sunlight. Extremely high or low temperatu	ires. Heat. Sparks. Open flame. Overheating.
10.5. Incompatible materials Strong acids. Strong bases.	
10.6. Hazardous decomposition products	S
Toxic fume Carbon monoxide. Carbon dioxide	
SECTION 11: Toxicological informa	tion
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Toluene (108-88-3)	
LD50 oral rat	5580 mg/kg body weight (Rat; Equivalent or similar to OECD 401; Literature study; 5580

Toluene (108-88-3)	
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)
Heptane, Branched Cyclic (426260-76-6)	
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)
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)
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.
	pH: 7
Serious eye damage/irritation	Causes serious eye irritation.
, C	pH: 7
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Talwaya (400.00.0)	
Toluene (108-88-3)	3
IARC group	
Benzene (71-43-2)	
IARC group	1 Commente disfinitions for d'lite south a such and shill d
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	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	: Dizziness. Irritation of the respiratory tract. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Shortness of breath. May cause drowsiness or dizziness.
Symptoms/injuries after skin contact	: Itching. Red skin. Causes skin irritation.
Symptoms/injuries after eye contact	: May cause severe irritation. Irritation of the eye tissue. Inflammation/damage of the eye tissue. Redness of the eye tissue. Causes serious eye irritation.
Symptoms/injuries after ingestion	: May be harmful if swallowed and enters airways. May be fatal if swallowed and enters airways.

SECTION 12: Ecological information	
12.1. Toxicity	
Carbon Dioxide, Liquefied, Under Pressure (1	24-38-9)
LC50 fish 1	35 mg/l (LC50; 96 h; Salmo gairdneri)
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)

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)
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.)
12.2. Persistence and degradability	
JOHNSEN'S THROTTLE BODY & AIR INTAKE	E CLEANER 10 OZ.
Persistence and degradability	Not established.
Carbon Dioxide, Liquefied, Under Pressure (124-38-9)
Persistence and degradability	Biodegradability: not applicable. Not applicable (gas).
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
Toluene (108-88-3)	Deadily biodegradeble is water. Diadegradeble is the sail Law potential for adequation is sail
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.
Biochemical oxygen demand (BOD) Chemical oxygen demand (COD)	2.15 g O ₂ /g substance 2.52 g O ₂ /g substance
ThOD	
BOD (% of ThOD)	3.13 g O ₂ /g substance 0.69
	0.03
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.
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.
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.
Acctore (C7 C4 4)	
Acetone (67-64-1)	
Acetone (67-64-1) 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. Not established.
Persistence and degradability	anaerobic conditions. No (test)data on mobility of the substance available. Not established.
Persistence and degradability Biochemical oxygen demand (BOD)	anaerobic conditions. No (test)data on mobility of the substance available. Not established. 1.43 g O_2 /g substance

EANER 10 OZ. ot established. 38-9) 83 (Experimental value) oaccumulation: not applicable. 0 (BCF; 72 h; Leuciscus idus; Static system; Fresh water) 73 (Experimental value; Other; 20 °C) ow potential for bioaccumulation (BCF < 500). 52 (BCF; BCFBAF v3.00) 66 (Experimental value; 4.5; Literature study) otential for bioaccumulation ($4 \ge Log \text{ Kow} \le 5$). ot established. 0 (BCF)
38-9) 83 (Experimental value) oaccumulation: not applicable. 0 (BCF; 72 h; Leuciscus idus; Static system; Fresh water) 73 (Experimental value; Other; 20 °C) ow potential for bioaccumulation (BCF < 500). 52 (BCF; BCFBAF v3.00) 66 (Experimental value; 4.5; Literature study) otential for bioaccumulation (4 ≥ Log Kow ≤ 5). ot established. 0 (BCF)
83 (Experimental value) oaccumulation: not applicable. 0 (BCF; 72 h; Leuciscus idus; Static system; Fresh water) 73 (Experimental value; Other; 20 °C) ow potential for bioaccumulation (BCF < 500). 52 (BCF; BCFBAF v3.00) 66 (Experimental value; 4.5; Literature study) otential for bioaccumulation (4 ≥ Log Kow ≤ 5). 50 (BCF)
oaccumulation: not applicable. 0 (BCF; 72 h; Leuciscus idus; Static system; Fresh water) 73 (Experimental value; Other; 20 °C) we potential for bioaccumulation (BCF < 500). 52 (BCF; BCFBAF v3.00) 66 (Experimental value; 4.5; Literature study) otential for bioaccumulation ($4 \ge Log$ Kow ≤ 5). 50 (BCF)
0 (BCF; 72 h; Leuciscus idus; Static system; Fresh water) 73 (Experimental value; Other; 20 °C) we potential for bioaccumulation (BCF < 500). 52 (BCF; BCFBAF v3.00) 66 (Experimental value; 4.5; Literature study) otential for bioaccumulation ($4 \ge Log$ Kow ≤ 5). 50 (BCF)
73 (Experimental value; Other; 20 °C) we potential for bioaccumulation (BCF < 500). 52 (BCF; BCFBAF v3.00) 66 (Experimental value; 4.5; Literature study) btential for bioaccumulation ($4 \ge Log \text{ Kow} \le 5$). bt established. 0 (BCF)
73 (Experimental value; Other; 20 °C) we potential for bioaccumulation (BCF < 500). 52 (BCF; BCFBAF v3.00) 66 (Experimental value; 4.5; Literature study) btential for bioaccumulation ($4 \ge Log \text{ Kow} \le 5$). bt established. 0 (BCF)
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52 (BCF; BCFBAF v3.00) 66 (Experimental value; 4.5; Literature study) 50 otential for bioaccumulation ($4 \ge Log \text{ Kow} \le 5$). 50 ot established. 50 (BCF)
66 (Experimental value; 4.5; Literature study) otential for bioaccumulation (4 ≥ Log Kow ≤ 5). ot established. Ø (BCF)
66 (Experimental value; 4.5; Literature study) otential for bioaccumulation (4 ≥ Log Kow ≤ 5). ot established. Ø (BCF)
otential for bioaccumulation (4 ≥ Log Kow ≤ 5). ot established. Ø (BCF)
ot established.
∂ (BCF)
∂ (BCF)
10 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 3 days; Leuciscus idus; ow-through system; Fresh water; Experimental value)
) (BCF; 24 h; Chlorella sp.)
13 (Experimental value)
ow potential for bioaccumulation (BCF < 500).
ot established.
69 (Pisces)
.24 (Test data)
ot bioaccumulative. Not established.
03 N/m (20 °C)
019 N/m (25 °C; 0.020 N/m; 20 °C)
g Koc,SRC PCKOCWIN v2.0; 2.38; Calculated value
029 N/m (20 °C)
bc,134.1; QSAR
0237 N/m (20 °C)
void release to the environment.
6: .2 ot 0: 0: 0: 0: 0: 0: 0: 0: 0:

15.1. Waste treatment methods	
Waste disposal recommendations	Dispose in a safe manner in accordance with local/national regulations. Container under pressure. Do not drill or burn even after use. Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.
Additional information	: Flammable vapors may accumulate in the container.
Ecology - waste materials	: Avoid release to the environment.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / ADN		
US DOT (ground):	UN1950, Aerosols, 2.1, Limited Quantity	
ICAO/IATA (air):	UN1950, Aerosols, 2.1, Limited Quantity	
IMO/IMDG (water):	UN1950, Aerosols, 2.1 (Marine Pollutant-Heptane), Limited Quantity	
Special Provisions:	N82 - See 173.306 of this subchapter for classification criteria for flammable aerosols	

14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Aerosols
	Flammable, (each not exceeding 1 L capacity)
Class (DOT)	: 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115
Hazard labels (DOT)	: 2.1 - Flammable gas
DOT Special Provisions (49 CFR 172.102)	: N82 - See 173.306 of this subchapter for classification criteria for flammable aerosols
DOT Packaging Exceptions (49 CFR 173.xxx)	: 306
DOT Packaging Non Bulk (49 CFR 173.xxx)	: None
DOT Packaging Bulk (49 CFR 173.xxx)	: None
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
DOT Vessel Stowage Other	: 48 - Stow "away from" sources of heat,87 - Stow "separated from" Class 1 (explosives) except Division 14,126 - Segregation same as for Class 9, miscellaneous hazardous materials
Subsidiary risks (IMDG)	: Marine Pollutant-Heptane
Air transport	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 75 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 150 kg
SECTION 15: Regulatory information	
15.1. US Federal regulations	
JOHNSEN'S THROTTLE BODY & AIR INTAKI	E CLEANER 10 OZ.
SARA Section 311/312 Hazard Classes	Fire hazard Delayed (chronic) health hazard Sudden release of pressure hazard Immediate (acute) health hazard
Carbon Dioxide, Liquefied, Under Pressure (124-38-9)
SARA Section 311/312 Hazard Classes	Sudden release of pressure 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 Substa	ances Control Act) inventory
	· · · · · · · · · · · · · · · · · · ·

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Heptane, Branched Cyclic (426260-76-6)	
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard
Benzene (71-43-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
Acetone (67-64-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Fire hazard Delayed (chronic) health hazard

15.2. International regulations

CANADA

JOHNSEN'S THROTTLE BODY & AIR INTAKE CLEANER 10 OZ.		
WHMIS Classification	Class B Division 5 - Flammable Aerosol	
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	
Benzene (71-43-2)		
Listed on the Canadian DSL (Domestic Substances List)		
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)	
Heptane, Branched Cyclic (426260-76-6)	
Benzene (71-43-2)	
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 Xn; R48/20 Xi; R36/38 Full text of R-phrases: see section 16

15.2.2. National regulations

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.

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

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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

15.5. US State regulations				
JOHNSEN'S THROTTLE B		NER 10 OZ.		
U.S California - Proposition 65 - Carcinogens List		No		
U.S California - Propositio Toxicity	n 65 - Developmental	No		
U.S California - Propositio Toxicity - Female	n 65 - Reproductive	No		
U.S California - Propositio Toxicity - Male	n 65 - Reproductive	No		
State or local regulations		U.S California - Proposition	65	
Carbon Dioxide, Liquefied	, Under Pressure (124-38-	9)		
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)				
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 -	U.S California -	U.S California -	U.S California -	Non-significant risk level
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	(NSRL)
No	No	No	No	
Heptane, Branched Cyclic	(426260-76-6)			
U.S California -	U.S California -	U.S California -	U.S California -	Non-significant risk level
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	(NSRL)
No	No	No	No	
Benzene (71-43-2)				
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)
Yes	Yes	No	Yes	
Acetone (67-64-1)				
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	
Acetone (67-64-1)				
U.S California -	U.S California -	U.S California -	U.S California -	Non-significant risk level
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	(NSRL)
Yes	No	No	No	
L		1	1	

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luene (108-88-3)
ate or local regulations
 S California - Proposition 65 S New Jersey - Special Health Hazards Substances List ew Jersey Right-to-Know S Massachusetts - Right To Know List node Island Right to Know S Michigan - Critical Materials List S New Jersey - Environmental Hazardous Substances List S Illinois - Toxic Air Contaminants S New York - Reporting of Releases Part 597 - List of Hazardous Substances S Pennsylvania - RTK (Right to Know) - Environmental Hazard List
enzene (71-43-2)
ate or local regulations
S California - Proposition 65 S Pennsylvania - RTK (Right to Know) List w Jersey Right-to-Know
etone (67-64-1)
ate or local regulations
S California - Proposition 65 nzene 71-43-2 S Massachusetts - Right To Know List S New Jersey - Right to Know Hazardous Substance List S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Other information

: None.

Full text of H-phrases:

ext of H-phrases:	
H223	Flammable aerosol
H224	Extremely flammable liquid and vapor
H225	Highly flammable liquid and vapor
H280	Contains gas under pressure; may explode if heated
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	: 1 Slight Hazard

: B

SDS US (GHS HazCom 2012) - TCC

Personal Protection

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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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30/01/2017