SAFETY DATA SHEET



1. Identification

1. Identification			
Product identifier	1547, 1547CA, CP-154		
Other means of identification			
Product Code	02536 111930 604		
Recommended use	Not available.		
Manufacturer/Importer/Supplier/	Distributor information		
Company name Address	Quest Industrial Products, LLC N92 W14701 Anthony Avenue Menomonee Falls, WI 53051 United States		
Telephone Website E-mail	General Assistance quest-ip.com info@quest-ip.com	(262) 255-95	00
Emergency phone number	Chemtrec Phone	800-424-9300)
2. Hazard(s) identification			
Physical hazards	Flammable aerosols		Category 1
	Gases under pressure		Liquefied gas
Health hazards	Serious eye damage/eye irritati	ion	Category 2A
	Reproductive toxicity		Category 2
	Specific target organ toxicity, si	ingle exposure	Category 3 narcotic effects
	Specific target organ toxicity, re exposure	epeated	Category 2
Environmental hazards	Hazardous to the aquatic environ hazard	onment, acute	Category 3

OSHA defined hazards

Label elements



Hazardous to the aquatic environment,

long-term hazard

Not classified.

Signal word Hazard statement

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Category 3

Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	88.76% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 88.76% of the mixture consists of component(s) of unknown long-term hazards to

the aquatic environment.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
ACETONE		67-64-1	30 to <40
N-BUTANE		106-97-8	10 to <20
PROPANE		74-98-6	10 to <20
PROPYLENE GLYCOL METHYL ETHER ACETATE		108-65-6	5 to <10
TOLUENE		108-88-3	5 to <10
2-Methylpropyl isobutyrate		97-85-8	1 to <5
ISOBUTYL ACETATE		110-19-0	1 to <5
N-BUTYL ACETATE		123-86-4	1 to <5
Other components below reportable	e levels		5 to <10

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

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.
Skin contact	Rinse skin with water/shower. Get medical attention if irritation develops and persists.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Not likely, due to the form of the product. In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth.
Most important symptoms/effects, acute and delayed	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Fire fighting equipment/instructions	In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials. Move

ds Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.

General fire hazards Extremely flammable aerosol. Contents under pressure. Pressurized container may explode when exposed to heat or flame.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent product from entering drains. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Purge air from system before introducing gas. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Do not re-use empty containers. Do not breathe mist or vapor. Avoid contact with eyes. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Level 2 Aerosol.
	Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Stored containers should be periodically checked for general condition and leakage. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
ACETONE (CAS 67-64-1)	PEL	2400 mg/m3	
		1000 ppm	
ISOBUTYL ACETATE (CAS 110-19-0)	PEL	700 mg/m3	
		150 ppm	
N-BUTYL ACETATE (CAS 123-86-4)	PEL	710 mg/m3	
		150 ppm	
PROPANE (CAS 74-98-6)	PEL	1800 mg/m3	

US. OSHA Table Z-1 Limit Components		Туре		, Val	ue
				100	0 ppm
US. OSHA Table Z-2 (29 C	FR 1910.1000)				
Components		Туре		Val	ue
TOLUENE (CAS 108-88-3)		Ceilin	g	300	ppm
		TWA		200	ppm
US. ACGIH Threshold Lim	it Values				
Components		Туре		Val	ue
ACETONE (CAS 67-64-1)		STEL		750	ppm
		TWA		500) ppm
ISOBUTYL ACETATE (CAS 110-19-0)	5	TWA		150) ppm
N-BUTANE (CAS 106-97-8)	1	STEL		100	10 ppm
N-BUTYL ACETATE (CAS		STEL) ppm
123-86-4)					
		TWA			ppm
TOLUENE (CAS 108-88-3)		TWA		20	opm
US. NIOSH: Pocket Guide	to Chemical H				
Components		Туре		Val	
ACETONE (CAS 67-64-1)		TWA		590	mg/m3
					ppm
ISOBUTYL ACETATE (CAS 110-19-0)	;	TWA		700	mg/m3
					ppm
N-BUTANE (CAS 106-97-8)	1	TWA			10 mg/m3
					ppm
N-BUTYL ACETATE (CAS 123-86-4)		STEL			mg/m3
					ppm
		TWA			mg/m3
					ppm
PROPANE (CAS 74-98-6)		TWA			0 mg/m3
		0			0 ppm
TOLUENE (CAS 108-88-3)		STEL			mg/m3
		T\A/A			ppm
		TWA			i mg/m3 i ppm
		1		100	, hhiii
US. Workplace Environme Components	ntal Exposure	Level (V Type	VEEL) Guides	Val	ue
PROPYLENE GLYCOL METHYL ETHER ACETATE (CAS 108-65-6)	Ē	TWA		50	opm
ogical limit values					
ACGIH Biological Exposu	re Indices				
Components	Value		Determinant	Specimen	Sampling Time
ACETONE (CAS 67-64-1)	50 mg/l		Acetone	Urine	*
TOLUENE (CAS 108-88-3)	•		o-Cresol, with	Creatinine in	*
. ,			hydrolysis	urine	
	0.03 mg/l 0.02 mg/l		Toluene Toluene	Urine	*
				Blood	

* - For sampling details, please see the source document.

Exposure guidelines		
US - California OELs: Skin d	esignation	
PROPYLENE GLYCOL METHYL ETHER ACETATE (CAS 108-65-6)		Can be absorbed through the skin.
TOLUENE (CAS 108-88-3	3)	Can be absorbed through the skin.
US - Minnesota Haz Subs: Sl	kin designation applies	
TOLUENE (CAS 108-88-3	3)	Skin designation applies.
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide evewash station.	
Individual protection measures,	such as personal protective e	quipment
Eye/face protection	Wear safety glasses with side	shields (or goggles).
Skin protection		
Hand protection	For prolonged or repeated skin contact use suitable protective gloves.	
Other	Wear suitable protective clothing.	
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
General hygiene considerations	personal hygiene measures, su	nce requirements. When using do not smoke. Always observe good uch as washing after handling the material and before eating, tinely wash work clothing and protective equipment to remove

9. Physical and chemical properties

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Appearance	
Physical state	Liquid.
Form	Aerosol. Liquefied gas.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	-305.68 °F (-187.6 °C) estimated
Initial boiling point and boiling range	-43.78 °F (-42.1 °C) estimated
Flash point	-156.0 °F (-104.4 °C) estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	1.3 % estimated
Flammability limit - upper (%)	12.8 % estimated
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	2228.98 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	550 °F (287.78 °C) estimated
Decomposition temperature	Not available.

Viscosity	Not available.
Other information	
Density	7.31 lbs/gal estimated
Explosive properties	Not explosive.
Flammability class	Flammable IA estimated
Heat of combustion (NFPA 30B)	28.88 kJ/g estimated
Oxidizing properties	Not oxidizing.
Percent volatile	49.82 % estimated
Specific gravity	0.88 estimated
VOC	49.82 % estimated

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Heat. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Acids. Strong oxidizing agents. Nitrates. Fluorine. Chlorine.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Causes serious eye irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects

Acute toxicity	Narcotic effects.	
Components	Species	Test Results
ACETONE (CAS 67-64-1))	
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 15800 mg/kg
Inhalation		
LC50	Rat	76 mg/l, 4 Hours
Oral		
LD50	Mouse	3000 mg/kg
	Rat	5800 mg/kg
ISOBUTYL ACETATE (CA	AS 110-19-0)	
Acute		
Oral		
LD50	Rabbit	4.8 g/kg
N-BUTANE (CAS 106-97-	-8)	
<u>Acute</u>		
Inhalation		
LC50	Mouse	680 mg/l, 2 Hours

Rat 658 mg/l, 4 Hours N-BUTYL ACETE (GAS 124-86-) Instantion Instantion 160 mg/l, 4 Hours Orai 14000 mg/lg LD50 Rat 14000 mg/lg PROPRANE (CAS 74-98-6) Acute 14000 mg/lg Acute Nation 112124 mg/lg Instantion LD50 Rat > 1442.847 mg/l, 15 Minutes TOLUENE (CAS 108-88-3) Instantion Instantion Instantion LD50 Rat 21214 mg/lg Instantion LD50 Rat 21214 mg/lg Instantion LD50 Rat 26700 ppm, 24 Hours Instantion LD50 Rat 26700 ppm, 24 Hours Instantion LD50 Rat 26700 ppm, 14 Hours Instantion Stin consolin/intation Prolonged skin contact may cause temporary initators Instantion Stin consolin/intation Not arespiratory sensitization Not arespiratory sensitization Stin consolin/intation Not arespiratory sensitization Not arespiratory sensitization Ret 26 g/lg Stin sensitization Not arespiratory sensitization R	Components	Species	Test Results
Acute inhalation LC50 Wistar rat 160 mg/l, 4 Hours Oral LD50 Rat 14000 mg/kg ROPANE (CAS 74-98-6) Rat 14000 mg/kg ROPANE (CAS 74-98-6) Rat 24000 mg/kg ROPANE (CAS 74-98-6) Rat 24000 mg/kg ROPANE (CAS 74-98-6) Rat 2412 Mg/kg LD50 Rat 2124 mg/kg LD50 Rat 2410 mg/kg LD50 Ratbit 12124 mg/kg LD50 Rabbit 2120 ppm, 8 Hours LC50 Mouse 5320 ppm, 8 Hours LC50 Mouse 3200 ppm, 2 Hours LC50 Rat 26700 ppm, 1 Hours LD50 Rat 2.6 g/kg * Estimates for product may be based on additional component data not shown. Kit oorosion/irritation recisus ay damage/aye Causes serious eye imitation. Ister or any components present at greater than 0.1% are mutagenic or genotoxic. retine cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. retine cell mutagenictr This product is not considered		Rat	658 mg/l, 4 Hours
Inhalation LC50 Wistar rat 160 mg/l. 4 Hours LC50 Rat 14000 mg/kg ROPANE (CAS 74-98-6) - - Action - - Action - - Action - - Notation - - LC50 Rat - Outmain - - Action - - Dormain - - LD50 Rabbit 12124 mg/kg LD50 Mouse - Action - - Dormain - - LD50 Mouse - Rat - - Action - - Dormain - - LD50 Rat - - S000 ppm, 24 Hours - - Action - - - LD50 Rat - - - S000 ppm, 24 Hours - - - Action	I-BUTYL ACETATE (CAS 123-86	i-4)	
LC50 Wistar rat 160 mg/l, 4 Hours Oral LD50 Rat 14000 mg/kg ROPANE (CAS 74-96-6) - - Acute Inhalation LC50 Rat - LC50 Rat > 1442.847 mg/l, 15 Minutes OLUENE (CAS 108-83-3) - - Acute Inhalation LC50 Rat > 1442.847 mg/l, 15 Minutes OLUENE (CAS 108-86-3) - - Acute Inhalation LC50 Rat - Inhalation LC50 Mouse 5320 ppm, 8 Hours 400 ppm, 24 Hours 12200 ppm, 1 Hours 12200 ppm, 24 Hours 400 ppm, 24 Hours 26700 ppm, 1 Hours 12200 ppm, 2 Hours 8000 ppm, 4 Hours Oral LD50 Rat 2.6 g/kg * Estimates for product may be based with corrosion/intriation Prolonged skin contact may cause temporary initiation. kin corrosion/intriation History or skin sensitization Not ar respiratory sensitization. Ret model mage/eye error cell mutagenicity Not data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Skin sensitization error cell mutagenicity Not data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. VIENT COLUENE (CAS 108-88-3) Not data available to indicate product or any components present at greater than 0.1% are mutagenic to regenotoxic. VIENT COLUENE (CAS 108-88-3) Not data available to indicate product or a	<u>Acute</u>		
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LD50 Rat 14000 mg/kg ROPANE (CAS 74-98-6) KOPANE (CAS 108-88-3) KOPANE (C	LC50	Wistar rat	160 mg/l, 4 Hours
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Instalation LCS0 Rat > 1442.847 mg/l, 15 Minutes CULENE (CAS 108-88-3)	PROPANE (CAS 74-98-6)		
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LD50 Rabbi 12124 mg/kg 14.1 ml/kg Inhalation LC50 Mouse 5320 ppm, 8 Hours 400 ppm, 24 Hours 400 ppm, 24 Hours 26700 ppm, 1 Hours 12200 ppm, 2 Hours 2000 ppm, 4 Hours 2000 ppm	Acute		
Inhalation 14.1 ml/kg LC50 Mouse 5320 ppm, 8 Hours 400 ppm, 24 Hours 400 ppm, 24 Hours Rat 26700 ppm, 1 Hours 12200 ppm, 2 Hours 8000 ppm, 2 Hours 8000 ppm, 2 Hours 8000 ppm, 2 Hours 1250 Rat 2.6 g/kg * Estimates for product may be based on additional component data not shown. stream Stin corrosion/irritation Prolonged skin contact may cause temporary irritation. Strinus eye damage/eye Causes serious eye iirritation. Respiratory or skin sensitization Not a respiratory sensitizer. Skin sensitization This product is not expected to cause skin sensitization. Serious eye damage/eye Cause available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Respiratory or skin sensitization This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. IARC Monographs.Overall Evaluation of Carcinogenicity 3 Not classifiable as to carcinogenicity to humans. OSHA Specifically Regulated Subscale as to carcinogenicity to humans. OSHA Specifically Regulated. Suspected of damaging fertility or the unborn child. Specific target organ toxicity - ingle exposure. May cause damage to	Dermal		
Inhalation LC50 Mouse 5320 ppm, 8 Hours 400 ppm, 24 Hours 8 At 26700 ppm, 1 Hours 200 ppm, 2 Hours 200 ppm, 2 Hours 200 ppm, 2 Hours 200 ppm, 2 Hours 200 ppm, 4 Hours 200 ppm,	LD50	Rabbit	12124 mg/kg
LC50 Mouse 5320 ppm, 8 Hours 400 ppm, 24 Hours 26700 ppm, 1 Hours 12200 ppm, 2 Hours 3000 ppm, 4 Hours 12200 ppm, 2 Hours 8000 ppm, 4 Hours 12200 ppm, 2 Hours 12200 ppm, 2 Hours 8000 ppm, 4 Hours 1200 ppm, 120 ppm 1200 ppm			14.1 ml/kg
Add ppm, 24 Hours Rat 26700 ppm, 1 Hours 12200 ppm, 2 Hours 8000 ppm, 4 Hours 8000 ppm, 4 Hours 12200 ppm, 2 Hours 8000 ppm, 4 Hours 0ral LD50 Rat 2.6 g/kg * Estimates for product may be based on additional component data not shown. Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Perious eye damage/eye Causes serious eye irritation. Respiratory or skin sensitization Not a respiratory sensitizer. Skin sensitization This product is not expected to cause skin sensitization. Bern cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. IARC Monographs. Overall Evaluation of Carcinogenicity To LUENE (CAS 108-88-3) State degrade of program (NTP) Report on Carcinogens Not arespirators. Not insteed. Suspected of damaging fertility or the unborn child. Specific target organ toxicity - pregram (NTP) Report on Carcinogens May cause damage to organs through proloned or repeated exposure. <	Inhalation		
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Harmful to aquatic life with long lasting effects.

Ecotoxicity

Components		Species	Test Results
ACETONE (CAS 67-6	64-1)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	10294 - 17704 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4740 - 6330 mg/l, 96 hours
N-BUTYL ACETATE ((CAS 123-86-4)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	17 - 19 mg/l, 96 hours
TOLUENE (CAS 108-	88-3)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	5.46 - 9.83 mg/l, 48 hours
Fish	LC50	Coho salmon,silver salmon (Oncorhynchus kisutch)	8.11 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-oct	anol / water (log Kow)
ACETONE	-0.24
ISOBUTYL ACETATE	1.78
N-BUTANE	2.89
N-BUTYL ACETATE	1.78
PROPANE	2.36
TOLUENE	2.73
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international
	regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

14. Transport information

DOT

UN number	UN1950
UN proper shipping name	UN1950, Aerosols, Flammable
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	N82
Packaging exceptions	306
Packaging non bulk	None

Packaging bulk IATA	None
UN number	UN1950
UN proper shipping name Transport hazard class(es)	Aerosols, Flammable
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Environmental hazards	No.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed.
Cargo aircraft only	Allowed.
IMDG	
UN number	UN1950
UN proper shipping name	Aerosols, Flammable
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Environmental hazards	
Marine pollutant	No.
EmS	Not available.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established.
DOT	





General information

Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure that containers are firmly secured. Ensure cylinder valve is closed and not leaking. Ensure valve outlet cap nut or plug (where provided) is correctly fitted. Ensure valve protection device (where provided) is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable regulations.

15. Regulatory information

US federal regulations	This product is a "Hazardou Standard, 29 CFR 1910.120		ed by the OSHA Hazard Communication	
TSCA Section 12(b) Export I	Notification (40 CFR 707, Su	bpt. D)		
Not regulated.				
CERCLA Hazardous Substa	nce List (40 CFR 302.4)			
ACETONE (CAS 67-64-1		Listed.		
ISOBUTYL ACETATE (C		Listed.		
N-BUTANE (CAS 106-97		Listed.		
N-BUTYL ACETATE (CA PROPANE (CAS 74-98-6		Listed. Listed.		
TOLUENE (CAS 108-88-		Listed.		
SARA 304 Emergency release				
Not regulated. OSHA Specifically Regulate	d Substances (29 CER 1910	1001-1050)		
Not regulated.				
-	authorization Act of 1096 (S			
Superfund Amendments and Re Hazard categories	Immediate Hazard - Yes	AKA)		
Hazaru categories	Delayed Hazard - Yes			
	Fire Hazard - Yes			
	Pressure Hazard - No			
	Reactivity Hazard - No			
SARA 302 Extremely hazard Not listed.	lous substance			
	No			
SARA 311/312 Hazardous chemical	No			
SARA 313 (TRI reporting)				
Chemical name		CAS number	% by wt.	
TOLUENE		108-88-3	5 to <10	
Other federal regulations				
Other federal regulations Clean Air Act (CAA) Section	112 Hazardous Air Pollutan	ts (HAPs) List		
Clean Air Act (CAA) Section		ts (HAPs) List		
-	3)		68.130)	
Clean Air Act (CAA) Section TOLUENE (CAS 108-88- Clean Air Act (CAA) Section N-BUTANE (CAS 106-97	3) • 112(r) Accidental Release F -8)		68.130)	
Clean Air Act (CAA) Section TOLUENE (CAS 108-88- Clean Air Act (CAA) Section N-BUTANE (CAS 106-97 PROPANE (CAS 74-98-6 Safe Drinking Water Act	3) • 112(r) Accidental Release F -8)		68.130)	
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Clean Air Act (CAA) Section TOLUENE (CAS 108-88- Clean Air Act (CAA) Section N-BUTANE (CAS 106-97 PROPANE (CAS 74-98-6 Safe Drinking Water Act (SDWA) Drug Enforcement Adm Chemical Code Number ACETONE (CAS 67- TOLUENE (CAS 108 Drug Enforcement Adm ACETONE (CAS 67- TOLUENE (CAS 108 DEA Exempt Chemical I ACETONE (CAS 67- TOLUENE (CAS 108 DEA Exempt Chemical I ACETONE (CAS 108 FEMA Priority Substance	3) a 112(r) Accidental Release F -8) 5) Not regulated. inistration (DEA). List 2, Ess -64-1) 3-88-3) inistration (DEA). List 1 & 2 64-1) 3-88-3) Mixtures Code Number 64-1) 3-88-3) ces Respiratory Health and S	Prevention (40 CFR Sential Chemicals (2 6532 6594 Exempt Chemical M 35 %WV 35 %WV 6532 594	21 CFR 1310.02(b) and 1310.04(f)(2) and Mixtures (21 CFR 1310.12(c))	
Clean Air Act (CAA) Section TOLUENE (CAS 108-88- Clean Air Act (CAA) Section N-BUTANE (CAS 106-97 PROPANE (CAS 74-98-6 Safe Drinking Water Act (SDWA) Drug Enforcement Adm Chemical Code Number ACETONE (CAS 67- TOLUENE (CAS 108 Drug Enforcement Adm ACETONE (CAS 67- TOLUENE (CAS 108 DEA Exempt Chemical I ACETONE (CAS 67- TOLUENE (CAS 108 DEA Exempt Chemical I ACETONE (CAS 67- TOLUENE (CAS 108 FEMA Priority Substance ACETONE (CAS 67-	3) a 112(r) Accidental Release F -8) Not regulated. inistration (DEA). List 2, Ess -64-1) 3-88-3) inistration (DEA). List 1 & 2 64-1) 3-88-3) Mixtures Code Number 64-1) 3-88-3) cos Respiratory Health and S 64-1)	Prevention (40 CFR Sential Chemicals (2 6532 6594 Exempt Chemical M 35 %WV 35 %WV 6532 594 Safety in the Flavor Low priority	21 CFR 1310.02(b) and 1310.04(f)(2) and Mixtures (21 CFR 1310.12(c))	
Clean Air Act (CAA) Section TOLUENE (CAS 108-88- Clean Air Act (CAA) Section N-BUTANE (CAS 106-97 PROPANE (CAS 74-98-6 Safe Drinking Water Act (SDWA) Drug Enforcement Adm Chemical Code Number ACETONE (CAS 67- TOLUENE (CAS 108 Drug Enforcement Adm ACETONE (CAS 67- TOLUENE (CAS 108 DEA Exempt Chemical I ACETONE (CAS 108 DEA Exempt Chemical I ACETONE (CAS 108 FEMA Priority Substance ACETONE (CAS 67- ISOBUTYL ACETAT	3) a 112(r) Accidental Release F -8) Not regulated. inistration (DEA). List 2, Ess -64-1) 3-88-3) inistration (DEA). List 1 & 2 64-1) 3-88-3) Mixtures Code Number 64-1) 3-88-3) ces Respiratory Health and S 64-1) E (CAS 110-19-0)	Prevention (40 CFR Sential Chemicals (2 6532 6594 Exempt Chemical M 35 %WV 35 %WV 6532 594 Safety in the Flavor Low priority Low priority	21 CFR 1310.02(b) and 1310.04(f)(2) and Mixtures (21 CFR 1310.12(c))	
Clean Air Act (CAA) Section TOLUENE (CAS 108-88- Clean Air Act (CAA) Section N-BUTANE (CAS 106-97 PROPANE (CAS 106-97 PROPANE (CAS 74-98-6 Safe Drinking Water Act (SDWA) Drug Enforcement Adm Chemical Code Number ACETONE (CAS 67- TOLUENE (CAS 108 Drug Enforcement Adm ACETONE (CAS 67- TOLUENE (CAS 108 DEA Exempt Chemical I ACETONE (CAS 67- TOLUENE (CAS 108 DEA Exempt Chemical I ACETONE (CAS 67- TOLUENE (CAS 108 FEMA Priority Substand ACETONE (CAS 67- ISOBUTYL ACETAT	3) a 112(r) Accidental Release F -8) Not regulated. inistration (DEA). List 2, Ess -64-1) 3-88-3) inistration (DEA). List 1 & 2 64-1) 3-88-3) Mixtures Code Number 64-1) 3-88-3) ces Respiratory Health and S 64-1) E (CAS 110-19-0)	Prevention (40 CFR Sential Chemicals (2 6532 6594 Exempt Chemical M 35 %WV 35 %WV 6532 594 Safety in the Flavor Low priority	21 CFR 1310.02(b) and 1310.04(f)(2) and Mixtures (21 CFR 1310.12(c))	
Clean Air Act (CAA) Section TOLUENE (CAS 108-88- Clean Air Act (CAA) Section N-BUTANE (CAS 106-97 PROPANE (CAS 74-98-6 Safe Drinking Water Act (SDWA) Drug Enforcement Adm Chemical Code Number ACETONE (CAS 67- TOLUENE (CAS 108 Drug Enforcement Adm ACETONE (CAS 67- TOLUENE (CAS 108 DEA Exempt Chemical I ACETONE (CAS 67- TOLUENE (CAS 108 DEA Exempt Chemical I ACETONE (CAS 67- TOLUENE (CAS 108 FEMA Priority Substand ACETONE (CAS 67- ISOBUTYL ACETATE N-BUTYL ACETATE	3) 112(r) Accidental Release F -8) 3) Not regulated. inistration (DEA). List 2, Ess -64-1) -8-88-3) inistration (DEA). List 1 & 2 -64-1) -8-83) Mixtures Code Number -64-1) -88-3) cos Respiratory Health and S -64-1) E (CAS 110-19-0) (CAS 123-86-4)	Prevention (40 CFR Sential Chemicals (2 6532 6594 Exempt Chemical M 35 %WV 35 %WV 6532 594 Safety in the Flavor Low priority Low priority Low priority	21 CFR 1310.02(b) and 1310.04(f)(2) and Mixtures (21 CFR 1310.12(c)) Manufacturing Workplace	
Clean Air Act (CAA) Section TOLUENE (CAS 108-88- Clean Air Act (CAA) Section N-BUTANE (CAS 106-97 PROPANE (CAS 74-98-6 Safe Drinking Water Act (SDWA) Drug Enforcement Adm Chemical Code Number ACETONE (CAS 67- TOLUENE (CAS 108 Drug Enforcement Adm ACETONE (CAS 67- TOLUENE (CAS 108 DEA Exempt Chemical I ACETONE (CAS 67- TOLUENE (CAS 108 DEA Exempt Chemical I ACETONE (CAS 67- TOLUENE (CAS 108 FEMA Priority Substance ACETONE (CAS 67- ISOBUTYL ACETATE US state regulations US. California Controlled Su	3) 112(r) Accidental Release F -8) 3) Not regulated. inistration (DEA). List 2, Ess -64-1) -8-88-3) inistration (DEA). List 1 & 2 64-1) -8-83) Mixtures Code Number 64-1) -88-3) cos Respiratory Health and S 64-1) E (CAS 110-19-0) (CAS 123-86-4)	Prevention (40 CFR Sential Chemicals (2 6532 6594 Exempt Chemical M 35 %WV 35 %WV 6532 594 Safety in the Flavor Low priority Low priority Low priority	21 CFR 1310.02(b) and 1310.04(f)(2) and Mixtures (21 CFR 1310.12(c))	
Clean Air Act (CAA) Section TOLUENE (CAS 108-88- Clean Air Act (CAA) Section N-BUTANE (CAS 106-97 PROPANE (CAS 74-98-6 Safe Drinking Water Act (SDWA) Drug Enforcement Adm Chemical Code Number ACETONE (CAS 67- TOLUENE (CAS 108 Drug Enforcement Adm ACETONE (CAS 67- TOLUENE (CAS 108 DEA Exempt Chemical I ACETONE (CAS 67- TOLUENE (CAS 108 DEA Exempt Chemical I ACETONE (CAS 67- TOLUENE (CAS 108 FEMA Priority Substance ACETONE (CAS 67- ISOBUTYL ACETATE US state regulations US. California Controlled Su Not listed.	3) a 112(r) Accidental Release F -8) 5) Not regulated. inistration (DEA). List 2, Ess -64-1) 3-88-3) inistration (DEA). List 1 & 2 64-1) 3-88-3) Mixtures Code Number 64-1) 3-88-3) ces Respiratory Health and S 64-1) E (CAS 110-19-0) (CAS 123-86-4) ibstances. CA Department o	Prevention (40 CFR Sential Chemicals (2 6532 6594 Exempt Chemical M 35 %WV 35 %WV 6532 594 Safety in the Flavor Low priority Low priority Low priority Low priority	21 CFR 1310.02(b) and 1310.04(f)(2) and Mixtures (21 CFR 1310.12(c)) Manufacturing Workplace	
Clean Air Act (CAA) Section TOLUENE (CAS 108-88- Clean Air Act (CAA) Section N-BUTANE (CAS 106-97 PROPANE (CAS 74-98-6 Safe Drinking Water Act (SDWA) Drug Enforcement Adm Chemical Code Number ACETONE (CAS 67- TOLUENE (CAS 108 Drug Enforcement Adm ACETONE (CAS 67- TOLUENE (CAS 108 DEA Exempt Chemical I ACETONE (CAS 67- TOLUENE (CAS 108 DEA Exempt Chemical I ACETONE (CAS 67- TOLUENE (CAS 108 FEMA Priority Substance ACETONE (CAS 67- ISOBUTYL ACETATE US state regulations US. California Controlled Su Not listed.	3) a 112(r) Accidental Release F -8) 5) Not regulated. inistration (DEA). List 2, Ess -64-1) 3-88-3) inistration (DEA). List 1 & 2 64-1) 3-88-3) Mixtures Code Number 64-1) 3-88-3) ces Respiratory Health and S 64-1) E (CAS 110-19-0) (CAS 123-86-4) ibstances. CA Department o	Prevention (40 CFR Sential Chemicals (2 6532 6594 Exempt Chemical M 35 %WV 35 %WV 6532 594 Safety in the Flavor Low priority Low priority Low priority Low priority	21 CFR 1310.02(b) and 1310.04(f)(2) and Mixtures (21 CFR 1310.12(c)) Manufacturing Workplace	ubd.

ACETONE (CAS 67-64-1) N-BUTANE (CAS 106-97-8) TOLUENE (CAS 108-88-3)

US. Massachusetts RTK - Substance List

ACETONE (CAS 67-64-1) ISOBUTYL ACETATE (CAS 110-19-0) N-BUTANE (CAS 106-97-8) N-BUTYL ACETATE (CAS 123-86-4) PROPANE (CAS 74-98-6) TOLUENE (CAS 108-88-3)

US. New Jersey Worker and Community Right-to-Know Act

2-Methylpropyl isobutyrate (CAS 97-85-8) ACETONE (CAS 67-64-1) ISOBUTYL ACETATE (CAS 110-19-0) N-BUTANE (CAS 106-97-8) N-BUTYL ACETATE (CAS 123-86-4) PROPANE (CAS 74-98-6) TOLUENE (CAS 108-88-3)

US. Pennsylvania Worker and Community Right-to-Know Law

ACETONE (CAS 67-64-1) ISOBUTYL ACETATE (CAS 110-19-0) N-BUTANE (CAS 106-97-8) N-BUTYL ACETATE (CAS 123-86-4) PROPANE (CAS 74-98-6) TOLUENE (CAS 108-88-3)

US. Rhode Island RTK

ACETONE (CAS 67-64-1) ISOBUTYL ACETATE (CAS 110-19-0) N-BUTANE (CAS 106-97-8) N-BUTYL ACETATE (CAS 123-86-4) PROPANE (CAS 74-98-6) TOLUENE (CAS 108-88-3)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

 TITANIUM DIOXIDE (CAS 13463-67-7)
 Listed: September 2, 2011

 US - California Proposition 65 - CRT: Listed date/Developmental toxin

 TOLUENE (CAS 108-88-3)
 Listed: January 1, 1991

 US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

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TOLUENE (CAS 108-88-3) Listed: August 7, 2009

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	12-05-2019
Version #	01
HMIS® ratings	Health: 2* Flammability: 4 Physical hazard: 0
NFPA ratings	Health: 2 Flammability: 4 Instability: 0
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