# SAFETY DATA SHEET

#### 1. Identification

1. Identification			
Product identifier	Maxx Kote ACME Equipment Blue		
Other means of identification			
Product Code	8209, 9845, 8372		
Recommended use	Not available.		
Manufacturer/Importer/Supplier/	Distributor information		
Company name Address	Tifco Industries, Inc. PO Box 40277 Houston, TX 77240 United States 281-571-6000		
Telephone	201-571-0000		
Emergency phone number	Chemtrec Phone 800-424-9300	)	
2. Hazard(s) identification			
Physical hazards	Flammable aerosols	Category 2	
	Gases under pressure	Liquefied gas	
Health hazards	Serious eye damage/eye irritation	Category 2A	
	Germ cell mutagenicity	Category 1B	
	Carcinogenicity	Category 1B	
	Reproductive toxicity	Category 2	
	Specific target organ toxicity, single exposure	Category 3 narcotic effects	
	Specific target organ toxicity, repeated exposure	Category 1	
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3	
	Hazardous to the aquatic environment, long-term hazard	Category 3	
OSHA defined hazards	Not classified.		
Label elements			
		>	
Signal word	Danger		
Hazard statement	Flammable aerosol. Contains gas under pressure; may explode if heated. Causes serious eye irritation. May cause drowsiness or dizziness. May cause genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.		
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,		

Response

the environment. Wear protective gloves/protective clothing/eye protection/face protection. 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.

even after use. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to

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	81.52% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 81.52% 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	20 to <30
BARIUM SULFATE		7727-43-7	10 to <20
PROPANE		74-98-6	10 to <20
PROPYLENE GLYCOL METHYL ETHER ACETATE		108-65-6	10 to <20
N-BUTANE		106-97-8	5 to <10
2-PENTANONE		107-87-9	1 to <5
TITANIUM DIOXIDE		13463-67-7	1 to <5
XYLENE		1330-20-7	1 to <5
ALIPHATIC SOLVENT MIXTURE		64741-41-9	0.1 to <1
ETHYLBENZENE		100-41-4	0.1 to <1
METHYL ETHYL KETOXIME		96-29-7	0.1 to <1
Other components below reportable	levels		20 to <30

\*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 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 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	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. When using, do not eat, drink or smoke. 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. Wash hands thoroughly after handling. 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

### 8. Exposure controls/personal protection

# Occupational exposure limits US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Components Type Value Form 2-PENTANONE (CAS PEL 700 mg/m3

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).

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

		200	
		200 ppm	
ACETONE (CAS 67-64-1)	PEL	2400 mg/m3	
		1000 ppm	
BARIUM SULFATE (CAS 7727-43-7)	PEL	5 mg/m3	Respirable fraction.
,		15 mg/m3	Total dust.
ETHYLBENZENE (CAS 100-41-4)	PEL	435 mg/m3	
		100 ppm	
PROPANE (CAS 74-98-6)	PEL	1800 mg/m3	
		1000 ppm	
TITANIUM DIOXIDE (CAS	PEL	15 mg/m3	Total dust.
13463-67-7) XYLENE (CAS 1330-20-7)	PEL	435 mg/m3	
		100 ppm	
		ioo ppin	
JS. ACGIH Threshold Limit Values	Turne	Value	Form
Components	Туре	Value	FUIII
2-PENTANONE (CAS 107-87-9)	STEL	150 ppm	
ACETONE (CAS 67-64-1)	STEL	750 ppm	
	TWA	500 ppm	
BARIUM SULFATE (CAS 7727-43-7)	TWA	5 mg/m3	Inhalable fraction.
ETHYLBENZENE (CAS 100-41-4)	TWA	20 ppm	
N-BUTANE (CAS 106-97-8)	STEL	1000 ppm	
TITANIUM DIOXIDE (CAS 13463-67-7)	TWA	10 mg/m3	
XYLENE (CAS 1330-20-7)	STEL	150 ppm	
()	TWA	100 ppm	
JS. NIOSH: Pocket Guide to Chemical Ha	azarde		
Components	Туре	Value	Form
2-PENTANONE (CAS	TWA	530 mg/m3	
107-87-9)		-	
		150 ppm	
ACETONE (CAS 67-64-1)	TWA	590 mg/m3	
	<b>T</b> 14/4	250 ppm	Desit 11
BARIUM SULFATE (CAS 7727-43-7)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
ETHYLBENZENE (CAS 100-41-4)	STEL	545 mg/m3	
		125 ppm	
	TWA	435 mg/m3	
		100 ppm	
N-BUTANE (CAS 106-97-8)	TWA	1900 mg/m3	
		800 ppm	
PROPANE (CAS 74-98-6)	TWA	1800 mg/m3 1000 ppm	
US. Workplace Environmental Exposure	Level (WEEL) Guides		
Components	Туре	Value	
	TWA	36 mg/m3	
KETOXIME (CAS 96-29-7)		10	
		10 ppm	

US. Workplace Environme Components	ental Exposure Level (WEEL) Guides Type Value			
PROPYLENE GLYCOL METHYL ETHER ACETATE (CAS 108-65-6)	TWA		50	ppm
Biological limit values				
ACGIH Biological Exposu Components	re Indices Value	Determinant	Specimen	Sampling Time
ACETONE (CAS 67-64-1) ETHYLBENZENE (CAS 100-41-4)	50 mg/l 0.15 g/g	Acetone Sum of mandelic acid and phenylglyoxylic acid	Urine Creatinine in urine	*
XYLENE (CAS 1330-20-7)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*
* - For sampling details, plea	ase see the source docu	iment.		
Exposure guidelines				
	US - California OELs: Skin designation PROPYLENE GLYCOL METHYL ETHER ACETATE Can be absorbed through the skin. (CAS 108-65-6)			
Appropriate engineering controls	should be matched to or other engineering	to conditions. If app controls to mainta	olicable, use proc in airborne levels	our) should be used. Ventilation rates cess enclosures, local exhaust ventilation, s below recommended exposure limits. If borne levels to an acceptable level. Provide
Individual protection measure Eye/face protection	Individual protection measures, such as personal protective equipment         Eye/face protection       Wear safety glasses with side shields (or goggles).			
Skin protection Hand protection	•			
Other	Wear suitable protective clothing.			
<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment.			
Thermal hazards	Wear appropriate th	ermal protective clo	othing, when nec	essary.
General hygiene considerations	personal hygiene me	easures, such as w	ashing after han	using do not smoke. Always observe good dling the material and before eating, and protective equipment to remove
9. Physical and chemica	l properties			

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 explosive limits		
Flammability limit - lower	1.9 % estimated	

	Flammability limit - upper (%)	12.8 % estimated
	Explosive limit - lower (%)	Not available.
	Explosive limit - upper (%)	Not available.
Va	por pressure	2509.05 hPa estimated
Va	por density	Not available.
Re	lative density	Not available.
So	lubility(ies)	
	Solubility (water)	Not available.
	rtition coefficient octanol/water)	Not available.
Au	to-ignition temperature	550 °F (287.78 °C) estimated
De	composition temperature	Not available.
Vis	cosity	Not available.
Ot	ner information	
	Density	7.22 lbs/gal
	Explosive properties	Not explosive.
	Flammability class	Flammable IA estimated
	Heat of combustion (NFPA 30B)	22.1 kJ/g estimated
	Oxidizing properties	Not oxidizing.
	Percent volatile	66.79
	Specific gravity	0.87
	VOC	352.04 g/l Material 2.94 lbs/gal Material 493.13 g/l Regulatory 4.12 lbs/gal Regulatory

# 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	Strong acids. Strong oxidizing agents. Nitrates. Aluminum. Halogens. Phosphorus. 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 toxical acidal of	feete

#### Information on toxicological effects

Acute toxicity

Narcotic effects.

Actic         Jamin (CAS 107-97-9)           Oral         Jamin (CAS 107-97-9)           LD50         Rat         Jamin (CAS 107-97-9)           Actic (CAS 67-64-1)         Jamin (CAS 107-97-9)           Actic (CAS 67-64-1)         Status (CAS 107-97-9)           Dermal         > 15800 mg/kg           Dermal         Status (CAS 107-97-9)           LD50         Rat         3000 mg/kg           Dornal         Status (CAS 100-91/4)           LD50         Mouse         3000 mg/kg           Dornal         Status (CAS 100-97-8)           Actic (CAS 106-97-8)         T7800 mg/kg           Oral         Status (CAS 106-97-8)           LD50         Rat         3500 mg/kg           Oral         Status (CAS 106-97-8)           LD50         Rat         3600 mg/kg           Oral         Status (CAS 104-97-8)           LD50         Rat         3600 mg/kg           Nouse         680 mg/l, 2 Hours           Actic (CAS 130-20-7)         Status (CAS 140-97-8)           Actic (CAS 130-20-7)         Status (CAS 140-97-8)           Mouse         3907 mg/l, 6 Hours           LD50         Rat         3907 mg/l, 6 Hours           LD50         Rat	Components	Species	Test Results
Oral Lo50         Rat         Jag Age           Lo50         Ratb         Jag Age           Actule Dormal         Stabbit         Stabbit           Lo50         Rabbit         Stabbit           Lo50         Rabbit         Stabbit           Lo50         Ratb         Stabbit           Daral         Target         Stabbit           Lo50         Rat         Stabbit           Caral         Stabbit         Stabbit           Lo50         Mouse         Stabbit           Caral         Stabbit         Stabbit           Lo50         Rabbit         Target           Lo50         Rath         Stabbit           Co50         Rath         Stabbit           Lo50         Rath         Stabbit <td>2-PENTANONE (CAS 107-87-9)</td> <td></td> <td></td>	2-PENTANONE (CAS 107-87-9)		
LD90 Raf. 3.73 g/kg ACETONE(CAS 67-64-1) ACETONE(CAS 67-64-1) ACETONE(CAS 67-64-1) Dormal LD90 Raboli LD90 Raboli LD90 Raboli LD90 Raboli LD90 Raboli CASON mg/kg CASON mg/kg			
AcuteAcuteDormalL550RabbitInhalationInhalationColspan="2">AcuteOralL550RatOralL550RatDormalColspan="2">AcuteDormalDormalL550RabbitDormalDormalDormalColspan="2">AcuteDormalColspan="2">AcuteDormalColspan="2">AcuteDormalColspan="2">AcuteDormalColspan="2">AcuteDormalColspan="2">AcuteColspan="2">AcuteDormalColspan="2">AcuteColspan="2">AcuteDormalColspan="2">AcuteColspan="2">AcuteDormalColspan="2">AcuteDormalColspan="2">AcuteDormalColspan="2">AcuteInhalationL500RabbitColspan="2">AcuteDormalColspan="2">AcuteDormalColspan="2">AcuteInhalationL500RabbitAcuteInhalationL500RabbitL500RabbitInhalationL500RabbitInhalationL500RabbitInhalationL500RabbitInhalationL500RabbitInhalationColspan="2">AcuteDormalColspan		Pot	2 72 alka
Acute Dormal         Acute           Dormal         Rabbit         > 16800 mg/kg           Inhalation         Ca           LO50         Mouse         3000 mg/kg           Data         Sa00 mg/kg           LD50         Rabbit         Sa00 mg/kg           Data         Sa00 mg/kg           LD50         Rabbit         Sa00 mg/kg           Inhalation         Inhalation         Sa00 mg/kg           LC50         Mouse         Sa0 mg/l, 2 Hours           Acute         Sa0         Sa0 mg/l, 2 Hours           NCCAS 1300-20-7)         Rat         Sa0 mg/l, 2 Hours           LC50         Rabbit         Sa0 mg/l, 2 Hours           LC50 <td></td> <td>Rat</td> <td>5.75 g/kg</td>		Rat	5.75 g/kg
Permal       Jabon Hole         Lobo       Rabit       Jabon Hole         Lobo       Rat       76 mg/l, 4 Hours         Oral       3000 mg/kq         Data       3000 mg/kq         Data       3000 mg/kq         Lobo       Mause       3000 mg/kq         Data       3000 mg/kq         Lobo       Rabit       17800 mg/kq         Lobo       Rabit       3000 mg/kq         Lobo       Rabit       3000 mg/kq         Lobo       Rabit       3000 mg/kq         Lobo       Rabit       680 mg/kq         Lobo       Rabit       680 mg/kq         Lobo       Mouse       680 mg/kq         Malation       Initiation       1442,847 mg/kq         Inhalation       Initiation       1442,847 mg/kq         Lobo       Rabit       3000 mg/kq         Data       Initiation       Initiation         Inhalation       Initiation       Initiation         Lobo       Mouse       3000 mg/kq         Lobo<			
LD80Rabit> 15800 mg/kgInhalation76 mg/l, 4 HoursLD50KaOral3000 mg/kgLD50RaAcute3800 mg/kgCharlen17800 mg/kgCharlen17800 mg/kgCharlenRabitLD50RabitOral17800 mg/kgLD50RabitCoral17800 mg/kgLD50RabitCoralRabitLD50RabitCoralRabitLD50RabitCoralRabitLD50RabitRote680 mg/l, 2 HoursRoteSamgl, 2 HoursHalationSamgl, 2 HoursLC50MouseRoteSamgl, 4 HoursInhalationSamgl, 2 HoursLC50RabitLC50RabitCoralSamgl, 2 HoursLC50RabitLC50RabitDoralSamgl, 4 HoursLC50RabitLC50RabitDoralSamgl, 4 HoursLC50RabitLC50RabitCoralSamgl, 4 HoursLD50RabitCoralSamgl, 4 HoursLD50Samgl, 4 HoursRabitSamgl, 4 HoursSamely or skin sensitizationSamgl, 4 HoursRespiratory or ski			
inhalation       Crown         LC50       Rat       76 mg/l, 4 Hours         LD50       Mouse       3000 mg/kg         Rat       5800 mg/kg         ETHYLBENZENE (CAS 100-41.4)       -         Acute       17800 mg/kg         Dermal       1050         LD50       Rat         Dermal       17800 mg/kg         LD50       Rat         Oral       3500 mg/kg         LD50       Rat         Acute       3500 mg/kg         Halation       -         LC50       Mouse         C50       Rat         Acute       688 mg/l, 2 Hours         PROPANE (CAS 74-98-6)       -         Acute       Factor         Inhalation       CS0         LC50       Rat         Acute       > 1442.847 mg/l, 15 Minutes         VELENE (CAS 74-98-6)       -         Acute       Sagman         Demal       CS0         LC50       Rat         D50       Mouse         LC50       Mouse         LC50       Mouse         Cala       Sagman         LC50       Rat		Rabbit	> 15800 ma/ka
LC50     Rat     76 mg/l, 4 Hours       Oral     3000 mg/kg       LD50     Mouse     5000 mg/kg       ETHYLBENZENE (CAS 100-41-)     -     -       Acute     5000 mg/kg       Dermal     -     -       Dermal     -     -       LD50     Rabbit     17800 mg/kg       Oral     -     -       LD50     Rabbit     -       ID50     Rabbit     -       ID50     Rabbit     -       ID50     Rabbit     -       ID50     Rabbit     -       Habition     -     -       LC50     Mouse     680 mg/l, 2 Hours       RCVEN     -     -       RCST A198-61     -     -       LC50     Mouse     680 mg/l, 2 Hours       LC50     Rat     -       Dermal     -     -       LC50     Rabbit     -       LD50     R		Rabbit	2 10000 mg/kg
Oral     3000 mg/kg       L560     Rat     3800 mg/kg       ETHYLEENZENE (CAS 100-41-4)     Kat     3800 mg/kg       ETHYLEENZENE (CAS 100-41-4)     Acute     Jonnal       Dormal     Jonnal     Jonnal       L550     Rabbit     7800 mg/kg       Oral     Joso     Joso       L550     Rabbit     7800 mg/kg       Oral     Joso     Joso       L550     Rat     3500 mg/kg       Inhalation     Kata     680 mg/l, 2 Hours       L550     Mouse     680 mg/l, 2 Hours       Rat     658 mg/l, 4 Hours     7800 mg/kg       C50     Rat     543 g/kg       Nouse     Acute     543 g/kg       Inhalation     Joso     3907 mg/l, 6 Hours       L550     Mouse     3907 mg/l, 6 Hours       L550     Rat     3500 mg/kg       L500     Mouse </td <td></td> <td>Rat</td> <td>76 mg/l 4 Hours</td>		Rat	76 mg/l 4 Hours
LD50     Mouse     3000 mg/kg       Rat     5800 mg/kg       CTHYLENZENC (CAS 100.41.4)     F       Acute     Bermai     17800 mg/kg       Dermai     0     8abbit     000 mg/kg       Colo     Rabbit     000 mg/kg       Colo     Rabbit     000 mg/kg       Colo     Rat     000 mg/kg       Colo     Rat     000 mg/kg       Colo     Rat     000 mg/kg       Colo     Mouse     680 mg/l, 2 Hours       Colo     Mouse     680 mg/l, 2 Hours       Colo     Rat     050 mg/kg       Inhalation     1442.847 mg/l, 15 Minutes       Colo     Rabbit     > 43 g/kg       Colo     Mouse     3907 mg/l, 6 Hours       Colo     Rabbit     3907 mg/l, 6 Hours       Colo     Mouse     3907 mg/l, 6 Hours       Colo     Nouse     3907 mg/l, 6 Hours       Colo     Nouse     3907 mg/l, 6			
Rat     5800 mg/kg       ETHYLBENZENE (CAS 100-41-4)     -       Acute     -       Dormal     17800 mg/kg       LD50     Rabbit     17800 mg/kg       Oral     -     -       LD50     Rat     3500 mg/kg       +BUTANE (CAS 106-97-8)     -     -       Acute     -     -       Inhalation     -     -       LC50     Mouse     680 mg/l, 2 Hours       CACUE     -     -       Inhalation     -     -       LC50     Rat     -       ROPANE (CAS 74-98-6)     -     -       Acute     -     -       Inhalation     -     -       LC50     Rat     -       Pormal     -     -       LC50     Rabbit     -       Dermal     -     -       LC50     Mouse     3007 mg/l, 6 Hours       LC50     Mouse     3620 ng/l, 4 Hours       Crai     -     -       LC50     Mouse     3620 ng/l, 4 Hours       LC50     Rat     3620 ng/l, 6 Hours       LC50     -     -     -       Dermal     -     -     -       LC50     Rat     3620 ng/l, 6 Hours		Mouse	3000 ma/ka
Acute       Jammal         Dormal       17800 mg/kg         LD50       Rabbit       17800 mg/kg         Oral       1000 mg/kg         LD50       Rat       3500 mg/kg         Acute       1000 mg/kg       1000 mg/kg         Inhalation       Kat       680 mg/l, 2 Hours         LC50       Mouse       680 mg/l, 2 Hours         PROPANE (CAS 74-98-6)       Kat       680 mg/l, 2 Hours         Acute       Inhalation       680 mg/l, 2 Hours         Inhalation       Kat       680 mg/l, 2 Hours         LC50       Rat       2000 mg/kg         Promal       Station       543 g/kg         LD50       Mouse       3907 mg/l, 6 Hours         Dormal       Station       3907 mg/l, 6 Hours         LD50       Mouse       3907 mg/l, 6 Hours         Oral       Estimates for product may beside on additional component data not shown.       Station on g/kg         Skin corrosion/irritation       Prolonged skin contact may cause temporary irritation.         Skin corrosion/irritation       Prolonged skin contact may cause temporary irritation.         Skin corrosion/irritation       Prolonged skin contact may cause temporary irritatiation.         Skin corrosion/irritation       Not a respir	2000		
Acute       Dormal       17800 mg/kg         LD50       Rabbit       17800 mg/kg         Cral       3500 mg/kg         LD50       Rat       3500 mg/kg         Cral       3500 mg/kg       3500 mg/kg         LD50       Mouse       680 mg/l, 2 Hours         LC50       Mouse       680 mg/l, 2 Hours         LC50       Mouse       658 mg/l, 4 Hours         PROPANE(CAS 74-98-6)       X       X         Acute       Fat       658 mg/l, 4 Hours         Inhalation       LC50       Rat       442.847 mg/l, 15 Minutes         LC50       Rat       3907 mg/l, 6 Hours       500 mg/kg         Mouse       3907 mg/l, 6 Hours       1442.847 mg/l, 15 Minutes         LC50       Rabbit       3907 mg/l, 6 Hours       14000000000000000000000000000000000000			5800 Hig/kg
Demai       Joso       Rabbit       7800 mg/kg         LDS0       Rat       3500 mg/kg         LDS0       Rat       3600 mg/kg         LBS0       Rat       680 mg/l, 2 Hours         Hatation       Excle       680 mg/l, 2 Hours         LCS0       Mouse       680 mg/l, 2 Hours         RCPANEY       Rat       780 mg/l, 6 Hours         LCS0       Rat       907 mg/l, 6 Hours         LCS0       Rabbit       907 mg/l, 6 Hours         LDS0       Rabbit       3907 mg/l, 6 Hours         LDS0       Mouse       907 mg/l, 6 Hours         LDS0       Mouse       1590 mg/kg         Rat       3500 mg/kg       1590 mg/kg         Crai       LDS0       Rat       3502 - 8600 mg/kg         Stin corrosion/irritation       Rat       3503 - 8600 mg/kg         Stin corrosion/irritation       Nol arespiratory sensitization         Respiratory sen			
LD50 Rabit 17800 mg/kg			
Oral LD50       Rat       3500 mg/kg         +BUTANE (CAS 106-97-8)		Rabbit	17800 ma/ka
LD50 Rat Monumber of CAS 106-97-80 Halation Acute Acu		Rabbit	17600 Hig/kg
A-BUTANE (CAS 106-97-8) Acute Inhalation LC50 Mouse 680 mg/l, 2 Hours 680 mg/l, 2 Hours 680 mg/l, 2 Hours 680 mg/l, 4 Hours 688 mg/l, 4 Hours 688 mg/l, 4 Hours 7000000000000000000000000000000000000		Pat	3500 ma/ka
Acute Inhalation LC50       Mouse       680 mg/l 2 Hours         Rate       685 mg/l 4 Hours         Rate       1442.847 mg/l, 15 Minutes         Acute Inhalation LC50       Rat       442.847 mg/l, 15 Minutes         Acute Inhalation LC50       Rat       442.847 mg/l, 15 Minutes         Acute Inhalation LC50       Rat       43 g/kg         Dermal       43 g/kg       43 g/kg         Inhalation LC50       Mouse       907 mg/l, 6 Hours         Inhalation LC50       Rath       3500 mg/l, 6 Hours         LC50       Mouse       3500 mg/l, 6 Hours         Coral LD50       Rath       590 mg/l, 6 Hours         LD50       Mouse Acute A		Nat	SSOO IIIg/kg
Inhalation       680 mg/l, 2 Hours         LC50       Mouse       680 mg/l, 2 Hours         Rat       680 mg/l, 4 Hours         RATUE       France       France         Acute       France       France         Inhalation       France       France         LC50       Rather       France         CVLENE (CAS 1330-20-7)       France       France         Dormal       France       France         LC50       Rabit       Aute         Inhalation       France       France         LC50       Rabit       Solong/l, 6 Hours         LC50       Mouse       3907 mg/l, 6 Hours         LC50       Mouse       Solong/l, 4 Hours         Dran       Rat       Solong/l, 4 Hours         LD50       Mouse       Solong/l, 4 Hours         Dran       Rat       Solong/l, 2 Hours         LD50       Mouse       Solong/log         Rat       Solong/log       Solong/log         Solong/log       Rat       Solong/log         LD50       Solong/log       Solong/log         Solong/log       Solong/log       Solong/log         Solong/log       Solong/log       Solong/log			
LC50       Mouse       680 mg/l, 2 Hours         Rat       658 mg/l, 4 Hours         PROPANE (CAS 74-98-6)			
Rat       658 mg/l, 4 Hours         PROPANE (CAS 74-98-6)       Acute         Inhalation       -         LC50       Rat         VELENE (CAS 1330-20-7)       -         Acute       -         Dermal       -         LD50       Rabbit         LD50       Mouse         Inhalation       -         LD50       Mouse         Inhalation       -         LD50       Mouse         Oral       -         LD50       Mouse         Info       -         Acute       -         Dermal       -         LC50       Mouse         Rat       0307 mg/l, 6 Hours         D50       Mouse         Rat       1590 mg/kg         Rat       3523 - 8600 mg/kg         Rat       3523 - 8600 mg/kg         Rat       3523 - 8600 mg/kg         Respiratory or skin sensitization       Not arespiratory sensitization         Respiratory sensitization       Not arespiratory sensitization         Respiratory sensitization       Not arespiratory sensitization         Skin sensitization       May cause genetic defects.         Skin sensitizatio		Mouse	680 mg/L 2 Hours
ACOPANE (CAS 74-98-6) Acute Inhalation LC50 Rat Acute CS0 Acute CS0 Rat Acute CS0 Rat Acute CS0 Rat Acute CS0 Rat Rat CS0 Rat CS0 Rat CS0 Rat	2000		-
Acute       Inhalation       2         IncS0       Rat       > 1442.847 mg/l, 15 Minutes         VLENE (CAS 1330-20-7)       Acute       2         Acute       Dermal       2         Dermal       > 43 g/kg       2         Inhalation       243 g/kg       2         LD50       Rabbit       243 g/kg       2         Inhalation       243 g/kg       2         LC50       Mouse       3907 mg/l, 6 Hours       2         Oral       Rat       6350 mg/l, 4 Hours       2         LD50       Mouse       1590 mg/kg       2         Acute       253 - 8600 mg/kg       2       2         * Estimates for product may beed on additional component data not shown.       Scale serious eye damage/eye       Causes serious eye irritation.       2         * fastimates for product may beed on additional component data not shown.       Scale serious eye damage/eye       Causes serious eye irritation.       2         Respiratory sensitization       Not a respiratory sensitizer.       Scale serious eye irritation.       2         Respiratory sensitization       Not a respiratory sensitizer.       Scale serious eye irritation.       2         Scare conspiration       Not a respiratory sensitizer.       Scale sensitizer.		Nat	000 mg/i, 4 mours
Inhalation       LC50       Rat       > 1442.847 mg/l, 15 Minutes         C50       Rat       > 1442.847 mg/l, 15 Minutes         CVLENE (CAS 1330-20-7)       Acute       -         Acute       -       -         Dermal       -       -         LD50       Rabit       > 43 g/kg         Inhalation       -       -         LC50       Mouse       3907 mg/l, 6 Hours         Oral       -       -         LD50       Mouse       6350 mg/kg         Total       -       -         LD50       Mouse       1590 mg/kg         Rat       3523 - 8600 mg/kg         Serious eve damage/eve       -       -         * Estimates for product may best on additional component data not shown.       -         Serious eve damage/eve       -       -         retation       -       -         Serious eve damage/eve       -       -       -			
ILC50 Rat > 1442.847 mg/l, 15 Minutes YLENE (CAS 1330-20-7) Acute Dermal LD50 Rabbit > 43 g/kg Inhalation LC50 Mouse 3907 mg/l, 6 Hours 6350 mg/l, 6 Hours 6350 mg/l, 4 Hours 70ral LD50 Mouse At A at A A A A A A A A A A A A A A A A			
Acute         Dermal         LD50       Rabbit       > 43 g/kg         Inhalation         LC50       Mouse       3907 mg/l, 6 Hours         Coral       Rat       6350 mg/l, 4 Hours         D50       Mouse       1590 mg/kg         LD50       Mouse       3523 - 8600 mg/kg         Cral       Rat       3523 - 8600 mg/kg         LD50       Mouse component data not shown.       Stan component get with the service of the service		Rat	> 1442 847 mg/L 15 Minutes
Acute       Jornal         LD50       Rabbit       > 43 g/kg         Inhalation       Jornal       3907 mg/l, 6 Hours         LC50       Mouse       3907 mg/l, 6 Hours         Data       Rat       6350 mg/l, 4 Hours         D50       Mouse       1590 mg/kg         LD50       Mouse       1590 mg/kg         Rat       3523 - 8600 mg/kg         * Estimates for product may best on additional component data not shown.       Scionag/kg         * testimates for product may best on additional component data not shown.       Scionag/kg         * testimates for product may best on additional component data not shown.       Scionag/kg         * testimates for product may best on additional component data not shown.       Scionag/kg         * testimates for product may best serious eye irritation.       Scionag/kg         ritation       Causes serious eye irritation.         Scionage years of shin sensitization       Not a respiratory sensitizer.         Respiratory sensitization       Not a respiratory sensitization.         Skin sensitization       Nois product is not expected to cause skin sensitization.         Skin sensitization       May cause genetic defects.         Carcinogenicity       May cause cancer.         IARC Monographs. Overall       Scionagenicity <td></td> <td>Rat</td> <td>2 1772.077 High, 10 Milluco</td>		Rat	2 1772.077 High, 10 Milluco
Dermal       > 43 g/kg         LD50       Rabbit       > 43 g/kg         Inhalation       3907 mg/l, 6 Hours         LC50       Mouse       3907 mg/l, 6 Hours         Data       6350 mg/l, 4 Hours         Data       590 mg/kg         LD50       Mouse       1590 mg/kg         LD50       Mouse       3523 - 8600 mg/kg         * Estimates for product may best on additional component data not shown.       Scale accore			
LD50       Rabit       > 43 g/kg         Inhalation       3007 mg/l, 6 Hours         LC50       Mouse       3057 mg/l, 6 Hours         Oral       Rat       3500 mg/l, 9 Hours         LD50       Mouse       1590 mg/kg         Kat       3523 - 8600 mg/kg         * Estimates for product may       Prolonged skin contact may cause temporary irritation.         Skin corrosion/irritation       Prolonged skin contact may cause temporary irritation.         Respiratory sensitization       Causes serious eye irritation.         Respiratory sensitization       Not a respiratory sensitizer.         Skin sensitization       Not a respiratory sensitizer.         Germ cell mutagenicity       May cause genetic defects.         Carcinogen city       May cause cancer.         IARC Monographs. Overall       Star concogenicity			
Inhalation       3907 mg/l, 6 Hours         LC50       Mouse       3907 mg/l, 6 Hours         Rat       6350 mg/l, 4 Hours         Oral       Nouse       1590 mg/kg         LD50       Mouse       1590 mg/kg         Rat       3523 - 8600 mg/kg         * Estimates for product may be best on additional component data not shown.       Strincorrosion/irritation         Prolonged skin contact may cause temporary irritation.       Strincorrosion eye irritation.         Serious eye damage/eye       Causes serious eye irritation.         Respiratory or skin sensitization       Not a respiratory sensitizer.         Skin sensitization       Not a respiratory sensitizer.         Serious eye call mutagenicity       May cause genetic defects.         Carcinogenicity       May cause cancer.         IARC Monographs. Overall Evultation of Carcinogenicity       Listen of Carcinogenicity		Rabbit	> 43 a/ka
LC50Mouse3907 mg/l, 6 HoursRat6350 mg/l, 4 HoursOral LD50Mouse1590 mg/kgRat3523 - 8600 mg/kg* Estimates for product may bested on additional component data not shown.3523 - 8600 mg/kg* Estimates for product may bested on additional component data not shown.Second graphsSkin corrosion/irritationProlonged skin contact may cause temporary irritation.Prolonged skin contact may cause temporary irritationCauses serious eye irritation.Respiratory or skin sensitizationCauses serious eye irritation.Respiratory or skin sensitizationNot a respiratory sensitizer.Skin sensitizationNot a respiratory sensitizer.Skin sensitizationMoi a respiratory sensitizer.Skin sensitizationMay cause genetic defects.Carc in ogenicityMay cause genetic defects.IARC Monographs. OverallUst or cancer.			
Rat6350 mg/l, 4 HoursOral LD50Mouse1590 mg/kgRat3523 - 8600 mg/kg* Estimates for product may be based on additional component data not shown.3523 - 8600 mg/kgSkin corrosion/irritationProlonged skin contact may cause temporary irritation.Serious eye damage/eye rritationCauses serious eye irritation.Respiratory or skin sensitization Respiratory sensitizationNot a respiratory sensitizer. This product is not expected to cause skin sensitization.Respiratory or skin sensitization Respiratory sensitizationNot a respiratory sensitizer. May cause genetic defects.Skin sensitization CarcinogenicityMay cause cancer.IARC Monographs. Overall Evidence Substruction of CarcinogenicityUse Substruction of Carcinogenicity		Mouse	3907 mg/l, 6 Hours
Oral       Mouse       1590 mg/kg         LD50       Mouse       3523 - 8600 mg/kg         * Estimates for product may based on additional component data not shown.       3523 - 8600 mg/kg         * Estimates for product may       Prolonged skin contact may cause temporary irritation.         Serious eye damage/eye rritation.       Causes serious eye irritation.         Respiratory or skin sensitization       Causes serious eye irritation.         Respiratory sensitization       Not a respiratory sensitizer.         Skin sensitization       Not a respiratory sensitizer.         Skin sensitization       Mouse agenetic defects.         Germ cell mutagenicity       May cause genetic defects.         Carcinogenicity       May cause cancer.         IARC Monographs. Overall       Lution of Carcinogenicity	2000		-
LD50 Mouse 1590 mg/kg Rat 3523 - 8600 mg/kg * Estimates for product may based on additional component data not shown. Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Serious eye damage/eye Causes serious eye irritation. Fritation Respiratory or skin sensitization Respiratory sensitization Not a respiratory sensitizer. Skin sensitization Not a respiratory sensitizer. Skin sensitization This product is not expected to cause skin sensitization. Germ cell mutagenicity May cause genetic defects. Carcinogenicity Nay cause cancer. IARC Monographs. Overall Evaluation of Carcinogenicity		Nat	0000 mg/i, 4 mours
Rat       3523 - 8600 mg/kg         * Estimates for product may based on additional component data not shown.         Skin corrosion/irritation       Prolonged skin contact may cause temporary irritation.         Serious eye damage/eye       Causes serious eye irritation.         Causes serious eye irritation.       Causes serious eye irritation.         Respiratory or skin sensitization       Not a respiratory sensitizer.         Skin sensitization       Not a respiratory sensitizer.         Skin sensitization       This product is not expected to cause skin sensitization.         Germ cell mutagenicity       May cause genetic defects.         Carcinogenicity       May cause cancer.         IARC Monographs. Overall E-Juation of Carcinogenicity		Mouse	1590 ma/ka
* Estimates for product may be based on additional component data not shown.         Skin corrosion/irritation       Prolonged skin contact may cause temporary irritation.         Serious eye damage/eye       Causes serious eye irritation.         rritation       Causes serious eye irritation.         Respiratory or skin sensitization       Not a respiratory sensitizer.         Skin sensitization       Not a respiratory sensitizer.         Skin sensitization       This product is not expected to cause skin sensitization.         Germ cell mutagenicity       May cause genetic defects.         Carcinogenicity       May cause cancer.         IARC Monographs. Overall Evaluation of Carcinogenicity	2000		
Skin corrosion/irritationProlonged skin contact may cause temporary irritation.Serious eye damage/eye rritationCauses serious eye irritation.Respiratory or skin sensitizationNot a respiratory sensitizer.Respiratory sensitizationNot a respiratory sensitizer.Skin sensitizationThis product is not expected to cause skin sensitization.Germ cell mutagenicityMay cause genetic defects.CarcinogenicityMay cause cancer.IARC Monographs. Overall Evaluation of Carcinogenicity		Rai	3523 - 8000 Hig/kg
Skin corrosion/irritationProlonged skin contact may cause temporary irritation.Serious eye damage/eye rritationCauses serious eye irritation.Respiratory or skin sensitizationNot a respiratory sensitizer.Respiratory sensitizationNot a respiratory sensitizer.Skin sensitizationThis product is not expected to cause skin sensitization.Germ cell mutagenicityMay cause genetic defects.CarcinogenicityMay cause cancer.IARC Monographs. Overall Evaluation of Carcinogenicity	* Estimates for product may b	e based on additional component of	data not shown.
rritation       Respiratory or skin sensitization         Respiratory sensitization       Not a respiratory sensitizer.         Skin sensitization       This product is not expected to cause skin sensitization.         Germ cell mutagenicity       May cause genetic defects.         Carcinogenicity       May cause cancer.         IARC Monographs. Overall Evaluation of Carcinogenicity			
Respiratory or skin sensitizationNot a respiratory sensitizer.Respiratory sensitizationNot a respiratory sensitizer.Skin sensitizationThis product is not expected to cause skin sensitization.Germ cell mutagenicityMay cause genetic defects.CarcinogenicityMay cause cancer.IARC Monographs. Overall Evaluation of Carcinogenicity	Serious eye damage/eye	Causes serious eye irritation.	
Respiratory sensitizationNot a respiratory sensitizer.Skin sensitizationThis product is not expected to cause skin sensitization.Germ cell mutagenicityMay cause genetic defects.CarcinogenicityMay cause cancer.IARC Monographs. Overall Evaluation of Carcinogenicity	rritation		
Skin sensitizationThis product is not expected to cause skin sensitization.Germ cell mutagenicityMay cause genetic defects.CarcinogenicityMay cause cancer.IARC Monographs. Overall Evaluation of Carcinogenicity	Respiratory or skin sensitization	1	
Germ cell mutagenicity       May cause genetic defects.         Carcinogenicity       May cause cancer.         IARC Monographs. Overall Evaluation of Carcinogenicity	Respiratory sensitization	Not a respiratory sensitizer.	
Carcinogenicity May cause cancer. IARC Monographs. Overall Evaluation of Carcinogenicity	Skin sensitization	This product is not expected to c	ause skin sensitization.
IARC Monographs. Overall Evaluation of Carcinogenicity	Germ cell mutagenicity	May cause genetic defects.	
	Carcinogenicity	May cause cancer.	
ETHYLBENZENE (CAS 100-41-4) 2B Possibly carcinogenic to humans.	IARC Monographs. Overall	Evaluation of Carcinogenicity	
	ETHYLBENZENE (CAS	100-41-4) 2	B Possibly carcinogenic to humans.
	Material name: EQUIPMENT BLUE 8		

TITANIUM DIOXIDE (CAS 13463-67-7)       2B Possibly carcinogenic to humans.         XYLENE (CAS 1330-20-7)       3 Not classifiable as to carcinogenicity to humans.         OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)       Not regulated.         US. National Toxicology Program (NTP) Report on Carcinogens       Carcinogenic to humans.		
Not listed.		
Reproductive toxicity	Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals. Suspected of damaging fertility or the unborn child.	
Specific target organ toxicity - single exposure	May cause drowsiness and dizziness.	
Specific target organ toxicity - repeated exposure	Causes damage to organs through prolonged or repeated exposure.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.	

# 12. Ecological information

toxicity	Harmful to a	aquatic life with long lasting effects.	
Components		Species	Test Results
2-PENTANONE (CAS	107-87-9)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	1190 - 1290 mg/l, 96 hours
ACETONE (CAS 67-64	<b>1</b> -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
BARIUM SULFATE (C	AS 7727-43-7)		
Aquatic			
Crustacea	EC50	Tubificid worm (Tubifex tubifex)	28.61 - 38.03 mg/l, 48 hours
ETHYLBENZENE (CA	S 100-41-4)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	1.37 - 4.4 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	7.5 - 11 mg/l, 96 hours
METHYL ETHYL KET	OXIME (CAS 96-29-7	7)	
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	777 - 914 mg/l, 96 hours
TITANIUM DIOXIDE (0	CAS 13463-67-7)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	> 1000 mg/l, 48 hours
Fish	LC50	Mummichog (Fundulus heteroclitus)	> 1000 mg/l, 96 hours
XYLENE (CAS 1330-2	0-7)		
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	7.711 - 9.591 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-octanol / water (log Kow)	
2-PENTANONE	0.91
ACETONE	-0.24
ETHYLBENZENE	3.15
N-BUTANE	2.89
PROPANE	2.36

Partition coefficient n-octar	nol / water (log Kow)
XYLENE	3.12 - 3.2
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 consideratio	ns
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	None
ΙΑΤΑ	
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	No.
	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo	Allowed.
aircraft	
Cargo aircraft only	Allowed.
IMDG	
UN number	UN1950
UN proper shipping name	Aerosols, Flammable
Transport hazard class(es)	
Class Outpaiding sink	2.1
Subsidiary risk	- 2.1
Label(s)	
Packing group Environmental hazards	Not applicable.
	No.
Marine pollutant EmS	No. Not available.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Transport in bulk according to Not established. Annex II of MARPOL 73/78 and the IBC Code

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 "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### CERCLA Hazardous Substance List (40 CFR 302.4)

2-PENTANONE (CAS 107-87-9)	Listed.
ACETONE (CAS 67-64-1)	Listed.
BARIUM SULFATE (CAS 7727-43-7)	Listed.
ETHYLBENZENE (CAS 100-41-4)	Listed.
N-BUTANE (CAS 106-97-8)	Listed.
PROPANE (CAS 74-98-6)	Listed.
XYLENE (CAS 1330-20-7)	Listed.

#### SARA 304 Emergency release notification

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not regulated.

Not regulated.

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes
	Fire Hazard - Yes
	Pressure Hazard - No
	Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 313 (TRI reporting)		
Chemical name	CAS number	% by wt.
XYLENE	1330-20-7	1 to <5
ETHYLBENZENE ther federal regulations	100-41-4	0.1 to <1
ther federal regulations Clean Air Act (CAA) Section 112 Hazardous Air P	ollutante (HAPe) List	
ETHYLBENZENE (CAS 100-41-4) XYLENE (CAS 1330-20-7) Clean Air Act (CAA) Section 112(r) Accidental Re		68.130)
N-BUTANE (CAS 106-97-8) PROPANE (CAS 74-98-6)		· · · · <b>/</b>
Safe Drinking Water Act Not regulated. (SDWA)		
Drug Enforcement Administration (DEA). List Chemical Code Number	t 2, Essential Chemicals (	21 CFR 1310.02(b) and 1310.04(f)(2) and
ACETONE (CAS 67-64-1)	6532	
Drug Enforcement Administration (DEA). List ACETONE (CAS 67-64-1) DEA Exempt Chemical Mixtures Code Numbe	35 %WV	Mixtures (21 CFR 1310.12(c))
ACETONE (CAS 67-64-1)	6532	
FEMA Priority Substances Respiratory Health	n and Safety in the Flavor	Manufacturing Workplace
2-PENTANONE (CAS 107-87-9)	Low priority	
ACETONE (CAS 67-64-1)	Low priority	
S state regulations		
-		
US. California Controlled Substances. CA Depart Not listed.		
<ul> <li>US. California Controlled Substances. CA Depart Not listed.</li> <li>US. California. Candidate Chemicals List. Safer C (a))</li> <li>ACETONE (CAS 67-64-1)</li> <li>ALIPHATIC SOLVENT MIXTURE (CAS 64741-4 ETHYLBENZENE (CAS 100-41-4)</li> <li>N-BUTANE (CAS 106-97-8)</li> <li>TITANIUM DIOXIDE (CAS 13463-67-7)</li> </ul>	onsumer Products Regul	
<ul> <li>US. California Controlled Substances. CA Depart Not listed.</li> <li>US. California. Candidate Chemicals List. Safer C (a))</li> <li>ACETONE (CAS 67-64-1)</li> <li>ALIPHATIC SOLVENT MIXTURE (CAS 64741-4 ETHYLBENZENE (CAS 100-41-4)</li> <li>N-BUTANE (CAS 106-97-8)</li> </ul>	onsumer Products Regul	
<ul> <li>US. California Controlled Substances. CA Depart Not listed.</li> <li>US. California. Candidate Chemicals List. Safer C (a))</li> <li>ACETONE (CAS 67-64-1)</li> <li>ALIPHATIC SOLVENT MIXTURE (CAS 64741-4 ETHYLBENZENE (CAS 100-41-4)</li> <li>N-BUTANE (CAS 106-97-8)</li> <li>TITANIUM DIOXIDE (CAS 13463-67-7)</li> <li>XYLENE (CAS 1330-20-7)</li> <li>US. Massachusetts RTK - Substance List</li> <li>2-PENTANONE (CAS 107-87-9)</li> <li>ACETONE (CAS 67-64-1)</li> <li>BARIUM SULFATE (CAS 100-41-4)</li> <li>N-BUTANE (CAS 106-97-8)</li> <li>PROPANE (CAS 106-97-8)</li> <li>PROPANE (CAS 74-98-6)</li> <li>TITANIUM DIOXIDE (CAS 13463-67-7)</li> <li>XYLENE (CAS 1330-20-7)</li> </ul>	onsumer Products Regul	
<ul> <li>US. California Controlled Substances. CA Depart Not listed.</li> <li>US. California. Candidate Chemicals List. Safer C (a))</li> <li>ACETONE (CAS 67-64-1)</li> <li>ALIPHATIC SOLVENT MIXTURE (CAS 64741-4)</li> <li>R-BUTANE (CAS 106-97-8)</li> <li>TITANIUM DIOXIDE (CAS 13463-67-7)</li> <li>XYLENE (CAS 1330-20-7)</li> <li>US. Massachusetts RTK - Substance List</li> <li>2-PENTANONE (CAS 107-87-9)</li> <li>ACETONE (CAS 67-64-1)</li> <li>BARIUM SULFATE (CAS 7727-43-7)</li> <li>ETHYLBENZENE (CAS 106-97-8)</li> <li>PROPANE (CAS 106-97-8)</li> <li>PROPANE (CAS 74-98-6)</li> <li>TITANIUM DIOXIDE (CAS 13463-67-7)</li> </ul>	onsumer Products Regul	
<ul> <li>US. California Controlled Substances. CA Depart Not listed.</li> <li>US. California. Candidate Chemicals List. Safer C (a))</li> <li>ACETONE (CAS 67-64-1)</li> <li>ALIPHATIC SOLVENT MIXTURE (CAS 64741-4 ETHYLBENZENE (CAS 100-41-4)</li> <li>N-BUTANE (CAS 106-97-8)</li> <li>TITANIUM DIOXIDE (CAS 13463-67-7)</li> <li>XYLENE (CAS 1330-20-7)</li> <li>US. Massachusetts RTK - Substance List</li> <li>2-PENTANONE (CAS 107-87-9)</li> <li>ACETONE (CAS 67-64-1)</li> <li>BARIUM SULFATE (CAS 100-41-4)</li> <li>N-BUTANE (CAS 106-97-8)</li> <li>PROPANE (CAS 106-97-8)</li> <li>PROPANE (CAS 1330-20-7)</li> <li>US. New Jersey Worker and Community Right-to- 2-PENTANONE (CAS 107-87-9)</li> <li>ACETONE (CAS 67-64-1)</li> <li>BARIUM SULFATE (CAS 107-87-9)</li> <li>ACETONE (CAS 67-64-1)</li> <li>BARIUM SULFATE (CAS 107-87-9)</li> <li>ACETONE (CAS 67-64-1)</li> <li>BARIUM SULFATE (CAS 100-41-4)</li> <li>N-BUTANONE (CAS 100-41-4)</li> <li>N-BUTANE (CAS 106-97-8)</li> <li>PROPANE (CAS 13463-67-7)</li> </ul>	onsumer Products Regul	
<ul> <li>US. California Controlled Substances. CA Depart Not listed.</li> <li>US. California. Candidate Chemicals List. Safer C (a))</li> <li>ACETONE (CAS 67-64-1)</li> <li>ALIPHATIC SOLVENT MIXTURE (CAS 64741-4 ETHYLBENZENE (CAS 100-41-4)</li> <li>N-BUTANE (CAS 106-97-8)</li> <li>TITANIUM DIOXIDE (CAS 13463-67-7)</li> <li>XYLENE (CAS 1330-20-7)</li> <li>US. Massachusetts RTK - Substance List</li> <li>2-PENTANONE (CAS 107-87-9)</li> <li>ACETONE (CAS 67-64-1)</li> <li>BARIUM SULFATE (CAS 100-41-4)</li> <li>N-BUTANE (CAS 106-97-8)</li> <li>PROPANE (CAS 106-97-8)</li> <li>PROPANE (CAS 1330-20-7)</li> <li>US. New Jersey Worker and Community Right-to- 2-PENTANONE (CAS 107-87-9)</li> <li>ACETONE (CAS 67-64-1)</li> <li>BARIUM SULFATE (CAS 107-87-9)</li> <li>ACETONE (CAS 67-64-1)</li> <li>BARIUM SULFATE (CAS 100-41-4)</li> <li>N-BUTANONE (CAS 107-87-9)</li> <li>ACETONE (CAS 67-64-1)</li> <li>BARIUM SULFATE (CAS 100-41-4)</li> <li>N-BUTANONE (CAS 100-41-4)</li> <li>N-BUTANE (CAS 106-97-8)</li> <li>PROPANE (CAS 13463-67-7)</li> <li>XYLENE (CAS 1330-20-7)</li> </ul>	onsumer Products Regul	
<ul> <li>US. California Controlled Substances. CA Depart Not listed.</li> <li>US. California. Candidate Chemicals List. Safer C (a))</li> <li>ACETONE (CAS 67-64-1)</li> <li>ALIPHATIC SOLVENT MIXTURE (CAS 64741-4 ETHYLBENZENE (CAS 100-41-4)</li> <li>N-BUTANE (CAS 106-97-8)</li> <li>TITANIUM DIOXIDE (CAS 13463-67-7)</li> <li>XYLENE (CAS 1330-20-7)</li> <li>US. Massachusetts RTK - Substance List</li> <li>2-PENTANONE (CAS 107-87-9)</li> <li>ACETONE (CAS 67-64-1)</li> <li>BARIUM SULFATE (CAS 100-41-4)</li> <li>N-BUTANE (CAS 106-97-8)</li> <li>PROPANE (CAS 106-97-8)</li> <li>PROPANE (CAS 1330-20-7)</li> <li>US. New Jersey Worker and Community Right-to- 2-PENTANONE (CAS 107-87-9)</li> <li>ACETONE (CAS 67-64-1)</li> <li>BARIUM SULFATE (CAS 107-87-9)</li> <li>ACETONE (CAS 67-64-1)</li> <li>BARIUM SULFATE (CAS 107-87-9)</li> <li>ACETONE (CAS 67-64-1)</li> <li>BARIUM SULFATE (CAS 100-41-4)</li> <li>N-BUTANONE (CAS 100-41-4)</li> <li>N-BUTANE (CAS 106-97-8)</li> <li>PROPANE (CAS 13463-67-7)</li> </ul>	onsumer Products Regul	

PROPANE (CAS 74-98-6) TITANIUM DIOXIDE (CAS 13463-67-7) XYLENE (CAS 1330-20-7)

#### **US. Rhode Island RTK**

ACETONE (CAS 67-64-1) ETHYLBENZENE (CAS 100-41-4) N-BUTANE (CAS 106-97-8) PROPANE (CAS 74-98-6) XYLENE (CAS 1330-20-7)

#### **US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer.

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

ETHYLBENZENE (CAS 100-41-4)	Listed: June 11, 2004
SILICA, CRYSTALLINE QUARTZ (CAS 14808-60-7)	Listed: October 1, 1988
TITANIUM DIOXIDE (CAS 13463-67-7)	Listed: September 2, 2011

#### 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

iento Rico Jontrol Act (15CA) Inventory

\*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	09-25-2015
Revision date	09-15-2016
Version #	03
HMIS® ratings	Health: 2* Flammability: 3 Physical hazard: 0
NFPA ratings	Health: 2 Flammability: 3 Instability: 0
Disclaimer	The information in the sheet was written based on the best knowledge and experience currently available. THE INFORMATION CONTAINED HEREIN IS BASED ON DATA BELIEVED TO BE RELIABLE AND THE MANUFACTURER DISCLAIMS ANY LIABILITY INCURRED FROM THE USE OR RELIANCE UPON THE SAME. THE INFORMATION GIVEN IS DESIGNED ONLY AS A GUIDANCE FOR SAFE HANDLING, USE, PROCESSING, STORAGE, TRANSPORTATION, DISPOSAL AND RELEASE AND IS NOT TO BE CONSIDERED A WARRANTY OR QUALITY SPECIFICATION. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This safety information is not a license to use this material as claimed by any patents of third parties. The user alone must finally determine whether a contemplated use of this material will infringe any such patents, and for obtaining any required licenses.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.