SAFETY DATA SHEET

1. Identification

1. Identification		
Product identifier	Maxx Kote Volvo Gray	
Other means of identification		
Product Code	8156, 9821, 8353	
Recommended use	Not available.	
Manufacturer/Importer/Supplier/I	Distributor information	
Company name Address Telephone	Tifco Industries, Inc. PO Box 40277 Houston, TX 77240 United States 281-571-6000	
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, 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 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 Response 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	78.85% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 78.85% 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
PROPANE		74-98-6	10 to <20
BARIUM SULFATE		7727-43-7	5 to <10
N-BUTANE		106-97-8	5 to <10
PROPYLENE GLYCOL METHYL ETHER ACETATE		108-65-6	5 to <10
2-PENTANONE		107-87-9	1 to <5
AMORPHOUS PRECIPITATED SILICA		112926-00-8	1 to <5
TITANIUM DIOXIDE		13463-67-7	1 to <5
TOLUENE		108-88-3	1 to <5
XYLENE		1330-20-7	1 to <5
4-Methyl-2-pentanone		108-10-1	0.1 to <1
ALIPHATIC SOLVENT MIXTURE		64741-41-9	0.1 to <1
CARBON BLACK		1333-86-4	0.1 to <1
ETHYLBENZENE		100-41-4	0.1 to <1
Other components below reportable	elevels		10 to <20

*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	Wash off with soap and water. 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. If eye irritation persists: Get medical advice/attention.
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	
Cuitable autimentiables made	Water for Alashal registent form Dry shaming neuron Carbon diavide (CO2)

Suitable extinguishing mediaWater fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).Unsuitable extinguishing
mediaDo 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 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.
Environmental precautions	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. 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, Level 2 Aerosol. including any incompatibilities

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	Form
2-PENTANONE (CAS 107-87-9)	PEL	700 mg/m3	
		200 ppm	
4-Methyl-2-pentanone (CAS 108-10-1)	PEL	410 mg/m3	
		100 ppm	
ACETONE (CAS 67-64-1)	PEL	2400 mg/m3	
		1000 ppm	
BARIUM SULFATE (CAS	PEL	5 mg/m3	Respirable fraction.
7727-43-7)			
		15 mg/m3	Total dust.
	PEL	3.5 mg/m3	
1333-86-4)	DEI	425 mg/m2	
ETHYLBENZENE (CAS 100-41-4)	PEL	435 mg/m3	
100-41-4)		100 ppm	
PROPANE (CAS 74-98-6)	PEL	1800 mg/m3	
(100 A H L (000 I + 30 - 0))			
		1000 ppm	Total dust
TITANIUM DIOXIDE (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.
XYLENE (CAS 1330-20-7)	PEL	435 mg/m3	
ATEENE (0A0 1000-20-7)	I EE	100 ppm	
US OSHA Table 7 2 (20 CEP 1010 1000	N .	Too ppin	
US. OSHA Table Z-2 (29 CFR 1910.1000 Components	-	Value	
components	Туре	value	
TOLUENE (CAS 108-88-3)	Ceiling	300 ppm	
	TWA	200 ppm	
US. OSHA Table Z-3 (29 CFR 1910.1000))		
US. OSHA Table Z-3 (29 CFR 1910.1000 Components	0) Туре	Value	
Components AMORPHOUS	-	Value 0.8 mg/m3	
Components AMORPHOUS PRECIPITATED SILICA	Туре		
Components AMORPHOUS PRECIPITATED SILICA	Туре	0.8 mg/m3	
Components AMORPHOUS PRECIPITATED SILICA	Туре		
Components AMORPHOUS PRECIPITATED SILICA (CAS 112926-00-8)	Туре	0.8 mg/m3	
Components AMORPHOUS PRECIPITATED SILICA (CAS 112926-00-8) US. ACGIH Threshold Limit Values	Туре	0.8 mg/m3	Form
Components AMORPHOUS PRECIPITATED SILICA (CAS 112926-00-8) US. ACGIH Threshold Limit Values Components	Type TWA Type	0.8 mg/m3 20 mppcf Value	Form
Components AMORPHOUS PRECIPITATED SILICA (CAS 112926-00-8) US. ACGIH Threshold Limit Values Components 2-PENTANONE (CAS	TWA	0.8 mg/m3 20 mppcf	Form
Components AMORPHOUS PRECIPITATED SILICA (CAS 112926-00-8) US. ACGIH Threshold Limit Values Components 2-PENTANONE (CAS 107-87-9)	Type TWA Type	0.8 mg/m3 20 mppcf Value	Form
Components AMORPHOUS PRECIPITATED SILICA (CAS 112926-00-8) US. ACGIH Threshold Limit Values Components 2-PENTANONE (CAS 107-87-9) 4-Methyl-2-pentanone (CAS	Type TWA Type STEL	0.8 mg/m3 20 mppcf Value 150 ppm	Form
Components AMORPHOUS PRECIPITATED SILICA (CAS 112926-00-8) US. ACGIH Threshold Limit Values Components 2-PENTANONE (CAS 107-87-9) 4-Methyl-2-pentanone (CAS	Type TWA Type STEL	0.8 mg/m3 20 mppcf Value 150 ppm	Form
Components AMORPHOUS PRECIPITATED SILICA (CAS 112926-00-8) US. ACGIH Threshold Limit Values Components 2-PENTANONE (CAS 107-87-9) 4-Methyl-2-pentanone (CAS 108-10-1)	Type TWA Type STEL STEL	0.8 mg/m3 20 mppcf Value 150 ppm 75 ppm	Form
Components AMORPHOUS PRECIPITATED SILICA (CAS 112926-00-8) US. ACGIH Threshold Limit Values Components 2-PENTANONE (CAS 107-87-9) 4-Methyl-2-pentanone (CAS 108-10-1)	Type TWA Type STEL STEL TWA	0.8 mg/m3 20 mppcf Value 150 ppm 75 ppm 20 ppm 750 ppm	Form
Components AMORPHOUS PRECIPITATED SILICA (CAS 112926-00-8) US. ACGIH Threshold Limit Values Components 2-PENTANONE (CAS 107-87-9) 4-Methyl-2-pentanone (CAS 108-10-1) ACETONE (CAS 67-64-1)	Type TWA Type STEL STEL TWA STEL	0.8 mg/m3 20 mppcf Value 150 ppm 75 ppm 20 ppm 750 ppm 500 ppm	Form Inhalable fraction.
Components AMORPHOUS PRECIPITATED SILICA (CAS 112926-00-8) US. ACGIH Threshold Limit Values Components 2-PENTANONE (CAS 107-87-9) 4-Methyl-2-pentanone (CAS 108-10-1) ACETONE (CAS 67-64-1) BARIUM SULFATE (CAS	Type TWA Type STEL STEL TWA STEL TWA	0.8 mg/m3 20 mppcf Value 150 ppm 75 ppm 20 ppm 750 ppm	
Components AMORPHOUS PRECIPITATED SILICA (CAS 112926-00-8) US. ACGIH Threshold Limit Values Components 2-PENTANONE (CAS 107-87-9) 4-Methyl-2-pentanone (CAS 108-10-1) ACETONE (CAS 67-64-1) BARIUM SULFATE (CAS 7727-43-7)	Type TWA Type STEL STEL TWA STEL TWA	0.8 mg/m3 20 mppcf Value 150 ppm 75 ppm 20 ppm 750 ppm 500 ppm	
Components AMORPHOUS PRECIPITATED SILICA (CAS 112926-00-8) US. ACGIH Threshold Limit Values Components 2-PENTANONE (CAS 107-87-9) 4-Methyl-2-pentanone (CAS 108-10-1) ACETONE (CAS 67-64-1) BARIUM SULFATE (CAS 7727-43-7) CARBON BLACK (CAS	Type TWA Type STEL STEL TWA STEL TWA TWA TWA	0.8 mg/m3 20 mppcf Value 150 ppm 75 ppm 20 ppm 750 ppm 500 ppm 5 mg/m3	Inhalable fraction.
Components AMORPHOUS PRECIPITATED SILICA (CAS 112926-00-8) US. ACGIH Threshold Limit Values Components 2-PENTANONE (CAS 107-87-9) 4-Methyl-2-pentanone (CAS 108-10-1) ACETONE (CAS 67-64-1) BARIUM SULFATE (CAS 7727-43-7) CARBON BLACK (CAS 1333-86-4) ETHYLBENZENE (CAS	Type TWA Type STEL STEL TWA STEL TWA TWA TWA	0.8 mg/m3 20 mppcf Value 150 ppm 75 ppm 20 ppm 750 ppm 500 ppm 5 mg/m3	Inhalable fraction.
Components AMORPHOUS PRECIPITATED SILICA (CAS 112926-00-8) US. ACGIH Threshold Limit Values Components 2-PENTANONE (CAS 107-87-9) 4-Methyl-2-pentanone (CAS 108-10-1) ACETONE (CAS 67-64-1) BARIUM SULFATE (CAS 7727-43-7) CARBON BLACK (CAS 1333-86-4) ETHYLBENZENE (CAS 100-41-4)	Type TWA Type STEL STEL TWA STEL TWA TWA TWA TWA	0.8 mg/m3 20 mppcf Value 150 ppm 75 ppm 20 ppm 750 ppm 500 ppm 5 mg/m3 3 mg/m3 20 ppm	Inhalable fraction.
Components AMORPHOUS PRECIPITATED SILICA (CAS 112926-00-8) US. ACGIH Threshold Limit Values Components 2-PENTANONE (CAS 107-87-9) 4-Methyl-2-pentanone (CAS 108-10-1) ACETONE (CAS 67-64-1) BARIUM SULFATE (CAS 7727-43-7) CARBON BLACK (CAS 1333-86-4) ETHYLBENZENE (CAS 100-41-4) N-BUTANE (CAS 106-97-8)	Type TWA Type STEL STEL TWA STEL TWA TWA TWA TWA TWA STEL	0.8 mg/m3 20 mppcf Value 150 ppm 75 ppm 20 ppm 750 ppm 500 ppm 5 mg/m3 3 mg/m3 20 ppm 1000 ppm	Inhalable fraction.
Components AMORPHOUS PRECIPITATED SILICA (CAS 112926-00-8) US. ACGIH Threshold Limit Values Components 2-PENTANONE (CAS 107-87-9) 4-Methyl-2-pentanone (CAS 108-10-1) ACETONE (CAS 67-64-1) BARIUM SULFATE (CAS 7727-43-7) CARBON BLACK (CAS 1333-86-4) ETHYLBENZENE (CAS 100-41-4) N-BUTANE (CAS 106-97-8) TITANIUM DIOXIDE (CAS	Type TWA Type STEL STEL TWA STEL TWA TWA TWA TWA	0.8 mg/m3 20 mppcf Value 150 ppm 75 ppm 20 ppm 750 ppm 500 ppm 5 mg/m3 3 mg/m3 20 ppm	Inhalable fraction.
Components AMORPHOUS PRECIPITATED SILICA (CAS 112926-00-8) US. ACGIH Threshold Limit Values Components 2-PENTANONE (CAS 107-87-9) 4-Methyl-2-pentanone (CAS 108-10-1) ACETONE (CAS 67-64-1) BARIUM SULFATE (CAS 7727-43-7) CARBON BLACK (CAS 1333-86-4) ETHYLBENZENE (CAS 100-41-4) N-BUTANE (CAS 106-97-8) TITANIUM DIOXIDE (CAS 13463-67-7)	Type TWA Type STEL STEL TWA STEL TWA TWA TWA TWA TWA TWA TWA	0.8 mg/m3 20 mppcf Value 150 ppm 75 ppm 20 ppm 750 ppm 500 ppm 5 mg/m3 3 mg/m3 20 ppm 1000 ppm 10 mg/m3	Inhalable fraction.
Components AMORPHOUS PRECIPITATED SILICA (CAS 112926-00-8) US. ACGIH Threshold Limit Values Components 2-PENTANONE (CAS 107-87-9) 4-Methyl-2-pentanone (CAS 108-10-1) ACETONE (CAS 67-64-1) BARIUM SULFATE (CAS 7727-43-7) CARBON BLACK (CAS 1333-86-4) ETHYLBENZENE (CAS 100-41-4) N-BUTANE (CAS 106-97-8) TITANIUM DIOXIDE (CAS 13463-67-7) TOLUENE (CAS 108-88-3)	Type TWA Type STEL STEL TWA STEL TWA TWA TWA TWA TWA TWA TWA	0.8 mg/m3 20 mppcf Value 150 ppm 75 ppm 20 ppm 750 ppm 500 ppm 5 mg/m3 3 mg/m3 20 ppm 1000 ppm	Inhalable fraction.
	Type TWA Type STEL STEL TWA STEL TWA TWA TWA TWA TWA TWA TWA	0.8 mg/m3 20 mppcf Value 150 ppm 75 ppm 20 ppm 750 ppm 500 ppm 5 mg/m3 3 mg/m3 20 ppm 1000 ppm 10 mg/m3	Inhalable fraction.

2-PENTANONE (CAS 107-87-9) 4-Methyl-2-pentanone (CAS 108-10-1) ACETONE (CAS 67-64-1) AMORPHOUS PRECIPITATED SILICA (CAS 112926-00-8) BARIUM SULFATE (CAS	5	TWA STEL TWA TWA TWA		150 300 75 205 50) mg/m3) ppm) mg/m3 ppm 5 mg/m3	
108-10-1) ACETONE (CAS 67-64-1) AMORPHOUS PRECIPITATED SILICA (CAS 112926-00-8)		TWA TWA		300 75 205 50	ppm 5 mg/m3	
108-10-1) ACETONE (CAS 67-64-1) AMORPHOUS PRECIPITATED SILICA (CAS 112926-00-8)	;	TWA TWA		75 208 50	ppm 5 mg/m3	
AMORPHOUS PRECIPITATED SILICA (CAS 112926-00-8)		TWA		205 50	5 mg/m3	
AMORPHOUS PRECIPITATED SILICA (CAS 112926-00-8)		TWA		50	•	
AMORPHOUS PRECIPITATED SILICA (CAS 112926-00-8)						
AMORPHOUS PRECIPITATED SILICA (CAS 112926-00-8)					• •	
PRECIPITATED SILICA (CAS 112926-00-8)		TWA) mg/m3) ppm	
PRECIPITATED SILICA (CAS 112926-00-8)		1 0 07 (ng/m3	
				011	ightic	
		TWA		5 n	ng/m3	Respirable.
7727-43-7)						
		-			mg/m3	Total
CARBON BLACK (CAS 1333-86-4)		TWA		0.1	mg/m3	
ETHYLBENZENE (CAS 100-41-4)		STEL		545	5 mg/m3	
				125	5 ppm	
		TWA		435	5 mg/m3	
				100) ppm	
N-BUTANE (CAS 106-97-8)	1	TWA			00 mg/m3	
) ppm	
PROPANE (CAS 74-98-6)		TWA			00 mg/m3	
					00 ppm	
TOLUENE (CAS 108-88-3)		STEL) mg/m3	
		TWA) ppm 5 mg/m3	
		IVVA) ppm	
US. Workplace Environme	ntal Exposure		VEEL) Guides	100	, ppm	
Components		Туре		Va	ue	
PROPYLENE GLYCOL METHYL ETHER ACETATE (CAS 108-65-6)	E	TWA		50	ppm	
logical limit values						
ACGIH Biological Exposu	re Indices					
Components	Value		Determinant	Specimen	Sampling Ti	me
4-Methyl-2-pentanone (CAS	1 mg/l		Methyl isobutyl	Urine	*	
108-10-1)	50 ma/l		ketone	Lirino	<u>ب</u>	
ACETONE (CAS 67-64-1) ETHYLBENZENE (CAS	50 mg/l 0.15 g/g		Acetone Sum of	Urine Creatinine in	*	
100-41-4)	0.15 g/g		mandelic acid	urine		
			and	unne		
			phenylglyoxylic			
	0.0		acid	0	*	
TOLUENE (CAS 108-88-3)	0.3 mg/g		o-Cresol, with hydrolysis	Creatinine in urine	*	
	0.03 mg/l		Toluene	Urine	*	
	0.02 mg/l		Toluene	Blood	*	
XYLENE (CAS 1330-20-7)	•		Methylhippuric	Creatinine in	*	
* For compliant defendent			acids	urine		
* - For sampling details, plea	ase see the sol	irce docu	ment.			
osure guidelines						
US - California OELs: Skin						
PROPYLENE GLYCOL (CAS 108-65-6) TOLUENE (CAS 108-8)		ER ACE		absorbed throug	-	

Can be absorbed through the skin.

TOLUENE (CAS 108-88-3)

US - Minnesota Haz Subs: Skin designation applies

TOLUENE (CAS 108-88-	-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 eyewash station.
Individual protection measures	, such as personal protective equipment
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	If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical 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 exp	losive limits
Flammability limit - lower (%)	1.9 % estimated
	12.8 % estimated
Flammability limit - upper (%)	
• • • •	Not available.
(%)	
(%) Explosive limit - lower (%)	Not available.
(%) Explosive limit - lower (%) Explosive limit - upper (%)	Not available. Not available.
(%) Explosive limit - lower (%) Explosive limit - upper (%) Vapor pressure	Not available. Not available. 2638.64 hPa estimated
(%) Explosive limit - lower (%) Explosive limit - upper (%) Vapor pressure Vapor density	Not available. Not available. 2638.64 hPa estimated Not available.
(%) Explosive limit - lower (%) Explosive limit - upper (%) Vapor pressure Vapor density Relative density	Not available. Not available. 2638.64 hPa estimated Not available.
(%) Explosive limit - lower (%) Explosive limit - upper (%) Vapor pressure Vapor density Relative density Solubility(ies)	Not available. Not available. 2638.64 hPa estimated Not available. Not available.
(%) Explosive limit - lower (%) Explosive limit - upper (%) Vapor pressure Vapor density Relative density Solubility(ies) Solubility(ies) Partition coefficient	Not available. Not available. 2638.64 hPa estimated Not available. Not available. Not available.
(%) Explosive limit - lower (%) Explosive limit - upper (%) Vapor pressure Vapor density Relative density Solubility(ies) Solubility(ies) Solubility (water) Partition coefficient (n-octanol/water)	Not available. Not available. 2638.64 hPa estimated Not available. Not available. Not available. Not available.
(%) Explosive limit - lower (%) Explosive limit - upper (%) Vapor pressure Vapor density Relative density Solubility(ies) Solubility(ies) Solubility (water) Partition coefficient (n-octanol/water) Auto-ignition temperature	Not available. Not available. 2638.64 hPa estimated Not available. Not available. Not available. Not available. 550 °F (287.78 °C) estimated
(%) Explosive limit - lower (%) Explosive limit - upper (%) Vapor pressure Vapor density Relative density Solubility(ies) Solubility(ies) Solubility (water) Partition coefficient (n-octanol/water) Auto-ignition temperature Decomposition temperature	Not available. Not available. 2638.64 hPa estimated Not available. Not available. Not available. S50 °F (287.78 °C) estimated Not available.
(%) Explosive limit - lower (%) Explosive limit - upper (%) Vapor pressure Vapor density Relative density Solubility(ies) Solubility(ies) Solubility (water) Partition coefficient (n-octanol/water) Auto-ignition temperature Decomposition temperature Viscosity	Not available. Not available. 2638.64 hPa estimated Not available. Not available. Not available. S50 °F (287.78 °C) estimated Not available.

Explosive properties Flammability class	Not explosive. Flammable IA estimated
Heat of combustion (NFPA 30B)	23.07 kJ/g estimated
Oxidizing properties	Not oxidizing.
Percent volatile	69.65
Specific gravity	0.84
voc	4.22 lbs/gal Regulatory 506.08 g/l Regulatory 3.05 lbs/gal Material 365.59 g/l Material

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	Hazardous polymerization does not occur.
Conditions to avoid	Heat. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong acids. 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 toxicological effects

Acute toxicity	Narcotic effects.	
Components	Species	Test Results
2-PENTANONE (CAS 10	7-87-9)	
<u>Acute</u>		
Oral		
LD50	Rat	3.73 g/kg
4-Methyl-2-pentanone (Ca	AS 108-10-1)	
Acute		
Dermal		
LD50	Rabbit	> 16000 mg/kg
Inhalation		
LC50	Rat	8.2 mg/l, 4 Hours
Oral		
LD50	Rat	2080 mg/kg
ACETONE (CAS 67-64-1)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 15800 mg/kg

Components	Species	Test Results
Inhalation	- /	
LC50	Rat	76 mg/l, 4 Hours
Oral		
LD50	Mouse	3000 mg/kg
	Rat	5800 mg/kg
AMORPHOUS PRECIPITATED S	ILICA (CAS 112926-00-8)	
<u>Acute</u>		
Oral		15000 1
LD50	Mouse	> 15000 mg/kg
	Rat	> 22500 mg/kg
CARBON BLACK (CAS 1333-86-4	4)	
Acute		
Oral	Det	
LD50	Rat	> 8000 mg/kg
ETHYLBENZENE (CAS 100-41-4)		
<u>Acute</u> Dermal		
LD50	Rabbit	17800 mg/kg
Oral	Rabbit	17000 mg/kg
LD50	Rat	3500 mg/kg
N-BUTANE (CAS 106-97-8)		
<u>Acute</u>		
Inhalation		
LC50	Mouse	680 mg/l, 2 Hours
	Rat	658 mg/l, 4 Hours
PROPANE (CAS 74-98-6)		3 , 1
Acute		
Inhalation		
LC50	Rat	> 1442.847 mg/l, 15 Minutes
TOLUENE (CAS 108-88-3)		
Acute		
Dermal		
LD50	Rabbit	12124 mg/kg
		14.1 ml/kg
Inhalation		
LC50	Mouse	5320 ppm, 8 Hours
		400 ppm, 24 Hours
	Rat	26700 ppm, 1 Hours
		12200 ppm, 2 Hours
		8000 ppm, 4 Hours
Oral		
LD50	Rat	2.6 g/kg
XYLENE (CAS 1330-20-7)		0.0
Acute		
Dermal		
LD50	Rabbit	> 43 g/kg
Inhalation		
LC50	Mouse	3907 mg/l, 6 Hours
	Rat	6350 mg/l, 4 Hours
		······································

Components	Species	Test Results
Oral		
LD50	Mouse	1590 mg/kg
	Rat	3523 - 8600 mg/kg
* Estimates for product may b	be based on additional comp	ponent data not shown.
Skin corrosion/irritation	Prolonged skin contact m	nay cause temporary irritation.
Serious eye damage/eye irritation	Causes serious eye irrita	tion.
Respiratory or skin sensitizatio	n	
Respiratory sensitization	Not a respiratory sensitiz	er.
Skin sensitization	This product is not expec	ted to cause skin sensitization.
Germ cell mutagenicity	May cause genetic defec	ts.
Carcinogenicity	May cause cancer.	
IARC Monographs. Overall	Evaluation of Carcinogen	icity
4-Methyl-2-pentanone (C AMORPHOUS PRECIPI 112926-00-8) CARBON BLACK (CAS ETHYLBENZENE (CAS TITANIUM DIOXIDE (CA TOLUENE (CAS 108-88 XYLENE (CAS 1330-20- OSHA Specifically Regulated Not regulated. US. National Toxicology Pr	TATED SILICA (CAS 1333-86-4) 100-41-4) AS 13463-67-7) -3) -7) ed Substances (29 CFR 19	
Not listed.		
Reproductive toxicity		uct have been shown to cause birth defects and reproductive disorders in ected of damaging fertility or the unborn child.
Specific target organ toxicity - single exposure	May cause drowsiness a	nd dizziness.
Specific target organ toxicity - repeated exposure	Causes damage to organs through prolonged or repeated exposure.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects		ns through prolonged or repeated exposure. Prolonged inhalation may be sure may cause chronic effects.
12. Ecological information	n	
Ecotoxicity	Harmful to aquatic life wit	th 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
4-Methyl-2-pentanone	(CAS 108-10-1)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	492 - 593 mg/l, 96 hours
ACETONE (CAS 67-6	4-1)		
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	CAS 7727-43-7)		
Aquatic			
Crustacea	EC50	Tubificid worm (Tubifex tubifex)	28.61 - 38.03 mg/l, 48 hours

Components		Species	Test Results
ETHYLBENZENE (CA	AS 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
TITANIUM DIOXIDE (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
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
XYLENE (CAS 1330-2	20-7)		
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-c	octanol / water (log Kow)	
2-PENTANONE		0.91
4-Methyl-2-pentanone		1.31
ACETONE		-0.24
ETHYLBENZENE		3.15
N-BUTANE		2.89
PROPANE		2.36
TOLUENE		2.73
XYLENE		3.12 - 3.2
Mobility in soil	No data available.	
A (1) (1) (1)	N1	

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.

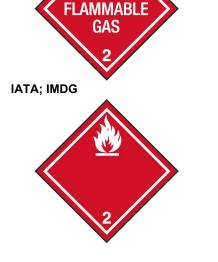
13. Disposal considerations

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

UN1950
UN1950, Aerosols, Flammable
2.1
-

2.1 Label(s) Packing group Not applicable. Special precautions for user Read safety instructions, SDS and emergency procedures before handling. **Special provisions** N82 **Packaging exceptions** 306 None Packaging non bulk Packaging bulk None ΙΑΤΑ UN1950 **UN number** Aerosols, Flammable UN proper shipping name Transport hazard class(es) 2.1 Class 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 Allowed. aircraft Allowed. Cargo aircraft only IMDG UN1950 **UN number** 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. Not available. EmS Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Not established. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code DOT



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.
4-Methyl-2-pentanone (CAS 108-10-1)	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.
TOLUENE (CAS 108-88-3)	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.

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 311/312 Hazardous No chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
TOLUENE	108-88-3	1 to <5
XYLENE	1330-20-7	1 to <5
4-Methyl-2-pentanone	108-10-1	0.1 to <1
ETHYLBENZENE	100-41-4	0.1 to <1

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

4-Methyl-2-pentanone (CAS 108-10-1) ETHYLBENZENE (CAS 100-41-4) TOLUENE (CAS 108-88-3) XYLENE (CAS 1330-20-7) Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

N-BUTANE (CAS 106-97-8) PROPANE (CAS 74-98-6)

Safe Drinking Water Act Not regulated. (SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

4-Methyl-2-pentanone (CAS 108-10-1)	6715
ACETONE (CAS 67-64-1)	6532
TOLUENE (CAS 108-88-3)	6594

Drug Enforcement Administration (DEA) List 1	& 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))
4-Methyl-2-pentanone (CAS 108-10-1)	35 %WV
ACETONE (CAS 67-64-1)	35 %WV
TOLUENE (CAS 108-88-3)	35 %WV
DEA Exempt Chemical Mixtures Code Number	
4-Methyl-2-pentanone (CAS 108-10-1)	6715
ACETONE (CAS 67-64-1)	6532
TOLUENE (CAS 108-88-3)	594
FEMA Priority Substances Respiratory Health ar	nd Safety in the Flavor Manufacturing Workplace
2-PENTANONE (CAS 107-87-9)	Low priority
4-Methyl-2-pentanone (CAS 108-10-1)	Low priority
ACETONE (CAS 67-64-1)	Low priority
US state regulations	
US. California Controlled Substances. CA Departme	nt of Justice (California Health and Safety Code Section 11100)
Not listed.	, , , , , , , , , , , , , , , , , , ,
US. California. Candidate Chemicals List. Safer Cons	sumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.
(a))	
4-Methyl-2-pentanone (CAS 108-10-1)	
ACETONE (CAS 67-64-1)	
ALIPHATIC SOLVENT MIXTURE (CAS 64741-41-9	
CARBON BLACK (CAS 1333-86-4)	
ETHYLBENZENE (CAS 100-41-4)	
N-BUTANE (CAS 106-97-8)	
TITANIUM DIOXIDE (CAS 13463-67-7)	
TOLUENE (CAS 108-88-3)	
XYLENE (CAS 1330-20-7)	
US. Massachusetts RTK - Substance List	
2-PENTANONE (CAS 107-87-9)	
4-Methyl-2-pentanone (CAS 108-10-1)	
AMORPHOUS PRECIPITATED SILICA (CAS 1129)	20-00-0)
BARIUM SULFATE (CAS 7727-43-7) CARBON BLACK (CAS 1333-86-4)	
ETHYLBENZENE (CAS 100-41-4)	

ETHYLBENZENE (CAS 100-41-4) N-BUTANE (CAS 106-97-8) PROPANE (CAS 74-98-6) TITANIUM DIOXIDE (CAS 13463-67-7) TOLUENE (CAS 108-88-3) XYLENE (CAS 1330-20-7)

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

2-PENTANONE (CAS 107-87-9) 4-Methyl-2-pentanone (CAS 108-10-1) ACETONE (CAS 67-64-1) AMORPHOUS PRECIPITATED SILICA (CAS 112926-00-8) BARIUM SULFATE (CAS 7727-43-7) CARBON BLACK (CAS 1333-86-4) ETHYLBENZENE (CAS 100-41-4) N-BUTANE (CAS 106-97-8) PROPANE (CAS 74-98-6) TITANIUM DIOXIDE (CAS 13463-67-7) TOLUENE (CAS 108-88-3) XYLENE (CAS 1330-20-7)

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

2-PENTANONE (CAS 107-87-9) 4-Methyl-2-pentanone (CAS 108-10-1) ACETONE (CAS 67-64-1) BARIUM SULFATE (CAS 7727-43-7) CARBON BLACK (CAS 1333-86-4) ETHYLBENZENE (CAS 100-41-4) N-BUTANE (CAS 106-97-8) PROPANE (CAS 74-98-6) TITANIUM DIOXIDE (CAS 13463-67-7) TOLUENE (CAS 108-88-3) XYLENE (CAS 1330-20-7)

US. Rhode Island RTK

4-Methyl-2-pentanone (CAS 108-10-1) ACETONE (CAS 67-64-1) ETHYLBENZENE (CAS 100-41-4) N-BUTANE (CAS 106-97-8) **PROPANE (CAS 74-98-6) TOLUENE (CAS 108-88-3)** XYLENE (CAS 1330-20-7)

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

	4-Methyl-2-pentanone (CAS 108-10-1)	Listed: November 4, 2011
	CARBON BLACK (CAS 1333-86-4)	Listed: February 21, 2003
	ETHYL ALCOHOL (CAS 64-17-5)	Listed: April 29, 2011
		Listed: July 1, 1988
	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
;	- California Proposition 65 - CRT: Listed date/Deve	lopmental toxin
	4-Methyl-2-pentanone (CAS 108-10-1)	Listed: March 28, 2014

US

Collifornia Dronosition CE CDT. Link	a di diata /Canada, na mua du ativa, tavin
TOLUENE (CAS 108-88-3)	Listed: January 1, 1991
ETHYL ALCOHOL (CAS 64-17-5)	Listed: October 1, 1987

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

TOLUENE (CAS 108-88-3)
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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

Listed: August 7, 2009

*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	06-26-2015
Revision date	03-06-2020
Version #	04
HMIS® ratings	Health: 2* Flammability: 3 Physical hazard: 0
NFPA ratings	Health: 2 Flammability: 3 Instability: 0

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