## **SAFETY DATA SHEET**

#### 1. Identification

Product identifier Maxx Kote Komatsu Industrial Yellow

Other means of identification

Product Code 8216, 9852, 8379
Recommended use Not available.

Manufacturer/Importer/Supplier/Distributor information

Company name Tifco Industries, Inc.
Address PO Box 40277

Houston, TX 77240

United States

**Telephone** 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
Serious eye damage/eye irritation Category 2A

Germ cell mutagenicity

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

Hazardous to the aquatic environment,

long-term hazard

Category 3

Category 3

OSHA defined hazards Not classified.

Label elements

Health hazards



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.

Response If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse

cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention.

**Storage** Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from

sunlight. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures

exceeding 50°C/122°F.

Disposal

Hazard(s) not otherwise classified (HNOC)

Dispose of contents/container in accordance with local/regional/national/international regulations. None known.

Supplemental information

83.35% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 83.35% 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
4-Methyl-2-pentanone		108-10-1	0.1 to <1
ALIPHATIC SOLVENT MIXTURE		64741-41-9	0.1 to <1
ETHYLBENZENE		100-41-4	0.1 to <1
Other components below reportable	e levels		20 to <30

<sup>\*</sup>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.

present and easy to do. Continue mising. Get medical attention in initiation 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

Indication of immediate medical attention and special treatment needed

**General information** 

media

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.

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

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 Unsuitable extinguishing

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Contents under pressure. Pressurized container may explode when exposed to heat or flame.

During fire, gases hazardous to health may be formed.

Firefighters must use standard protective equipment including flame retardant coat, helmet with

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 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 Type Value Form

2-PENTANONE (CAS PEL 700 mg/m3
107-87-9)

PEL PEL PEL	200 ppm 410 mg/m3 100 ppm	
	2400 ma/m3	
PEL	2400 mg/m3 1000 ppm	
	5 mg/m3	Respirable fraction.
	15 mg/m3	Total dust.
PEL	435 mg/m3	
	100 ppm	
PEL		
PFI		Total dust.
	-	i otai aust.
PEL	435 mg/m3	
	100 ppm	
Tuno	Value	Form
		Inhalable fraction.
1 **/*	o mg/mo	minalable maction.
TWA	20 ppm	
STEL	1000 ppm	
	10 mg/m3	
	150 ppm	
	100 ppm	
	Value	Form
TWA	·	
OTE!		
STEL	·	
TWA		
. ***	_	
TWA	590 mg/m3	
	250 ppm	
TWA	5 mg/m3	Respirable.
	10 mg/m3	Total
STEL	•	
	125 ppm	
TWA	_	
	PEL PEL PEL  Type STEL STEL TWA STEL TWA TWA TWA STEL TWA	PEL 435 mg/m3  PEL 100 ppm 1800 mg/m3 1000 ppm 15 mg/m3  PEL 15 mg/m3  PEL 435 mg/m3 100 ppm  Type Value  STEL 150 ppm  STEL 75 ppm  TWA 20 ppm  TWA 500 ppm  TWA 500 ppm  STEL 1000 ppm  TWA 20 ppm  TWA 10 mg/m3  STEL 150 ppm  TWA 10 mg/m3  STEL 150 ppm  TWA 100 ppm  TWA 530 mg/m3  TWA 530 mg/m3  STEL 300 mg/m3  STEL 300 mg/m3  TWA 205 mg/m3  TWA 590 mg/m3  STEL 590 ppm  TWA 590 mg/m3  STEL 10 mg/m3  STEL 545 mg/m3  STEL 545 mg/m3

US. NIOSH: Pocket Guide to Chemical Hazards				
Components	Туре	Value	Form	
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 Exp	osure Level (WEEL) Guides			
Components	Туре	Value		
PROPYLENE GLYCOL	TWA	50 ppm		
METHYL ETHER ACETATE				

# (CAS 108-65-6) Biological limit values

**ACGIH Biological Exposure Indices** 

Components	Value	Determinant	Specimen	Sampling Time	
4-Methyl-2-pentanone (CAS 108-10-1)	S1 mg/l	Methyl isobutyl ketone	Urine	*	
ACETONE (CAS 67-64-1)	50 mg/l	Acetone	Urine	*	
ETHYLBENZENE (CAS 100-41-4)	0.15 g/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*	
XYLENE (CAS 1330-20-7)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*	

<sup>\* -</sup> For sampling details, please see the source document.

#### **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

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** In case of insufficient ventilation, wear suitable respiratory equipment.

**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.
pH Not available.

**Melting point/freezing point**  $-305.68 \, ^{\circ}\text{F} \, (-187.6 \, ^{\circ}\text{C}) \, \text{estimated}$ 

Initial boiling point and boiling -43.78 °F (-42.1 °C) estimated

range

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

er 1.9 % estimated

(%)

Flammability limit - upper

12.8 % estimated

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 2543.14 hPa estimated

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature 550 °F (287.78 °C) estimated

**Decomposition temperature** Not available. **Viscosity** Not available.

Other information

**Density** 7.20 lbs/gal **Explosive properties** Not explosive.

Flammability class Flammable IA estimated
Heat of combustion (NFPA 22.21 kJ/g estimated

30B)

Oxidizing properties Not oxidizing.

Percent volatile 66.71 Specific gravity 0.86

VOC 4.09 lbs/gal Regulatory

490.09 g/l Regulatory 2.92 lbs/gal Material 350.27 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

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. 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.

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.

Acute toxicity	Narcotic effects.	
Components	Species	Test Results
2-PENTANONE (CAS 107-8	37-9)	
<u>Acute</u>		
Oral		
LD50	Rat	3.73 g/kg
4-Methyl-2-pentanone (CAS	108-10-1)	
<u>Acute</u>		
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
Inhalation		
LC50	Rat	76 mg/l, 4 Hours
Oral		
LD50	Mouse	3000 mg/kg
	Rat	5800 mg/kg
ETHYLBENZENE (CAS 100	)-41-4)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	17800 mg/kg
Oral		
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)		
<u>Acute</u>		
Inhalation		
LC50	Rat	> 1442.847 mg/l, 15 Minutes
XYLENE (CAS 1330-20-7)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 43 g/kg
Inhalation		
LC50	Mouse	3907 mg/l, 6 Hours
	Rat	6350 mg/l, 4 Hours
Oral		
LD50	Mouse	1590 mg/kg

Components Species Test Results

Rat

3523 - 8600 mg/kg

\* 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.

irritation

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

4-Methyl-2-pentanone (CAS 108-10-1)
ETHYLBENZENE (CAS 100-41-4)
2B Possibly carcinogenic to humans.
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

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

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

Components		Species	Test Results
2-PENTANONE (CAS 1	07-87-9)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	1190 - 1290 mg/l, 96 hours
4-Methyl-2-pentanone (0	CAS 108-10-1)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	492 - 593 mg/l, 96 hours
ACETONE (CAS 67-64-	1)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	10294 - 17704 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4740 - 6330 mg/l, 96 hours
BARIUM SULFATE (CA	S 7727-43-7)		
Aquatic			
Crustacea	EC50	Tubificid worm (Tubifex tubifex)	28.61 - 38.03 mg/l, 48 hours
ETHYLBENZENE (CAS	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

Components Species Test Results

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

XYLENE (CAS 1330-20-7)

Aquatic

Fish LC50 Bluegill (Lepomis macrochirus) 7.711 - 9.591 mg/l, 96 hours

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

 4-Methyl-2-pentanone
 1.31

 ACETONE
 -0.24

 ETHYLBENZENE
 3.15

 N-BUTANE
 2.89

 PROPANE
 2.36

 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 considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents

under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Do not re-use empty containers.

## 14. Transport information

DOT

UN number UN1950

UN proper shipping name UN1

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

IATA

UN number UN1950

UN proper shipping name Aerosols, Flammable

Transport hazard class(es)

Class 2.1

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Subsidiary risk -Label(s) 2.1

Packing group Not applicable.

Environmental hazards No.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed.

Cargo aircraft only

Allowed.

**IMDG** 

UN number UN1950

UN proper shipping name Transport hazard class(es) Aerosols, Flammable

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not applicable.

**Environmental hazards** 

Marine pollutant No.

EmS Not available.

Special precautions for user Read safety instance

Transport in bulk according to Not established.

**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

DOT



IATA; IMDG



**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. 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. 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)

No

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

chemical

#### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
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)

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

## 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

**DEA Exempt Chemical Mixtures Code Number** 

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

#### FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

2-PENTANONE (CAS 107-87-9)

4-Methyl-2-pentanone (CAS 108-10-1)

ACETONE (CAS 67-64-1)

Low priority

Low priority

#### **US** state regulations

## US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

#### US. California. Candidate Chemicals List. Safer Consumer 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)

ETHYLBENZENE (CAS 100-41-4)

N-BUTANE (CAS 106-97-8)

TITANIUM DIOXIDE (CAS 13463-67-7)

XYLENE (CAS 1330-20-7)

#### **US. Massachusetts RTK - Substance List**

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)

ETHYLBENZENE (CAS 100-41-4)

N-BUTANE (CAS 106-97-8)

PROPANE (CAS 74-98-6)

TITANIUM DIOXIDE (CAS 13463-67-7)

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)** 

BARIUM SULFATE (CAS 7727-43-7)

ETHYLBENZENE (CAS 100-41-4)

N-BUTANE (CAS 106-97-8)

PROPANE (CAS 74-98-6)

TITANIUM DIOXIDE (CAS 13463-67-7)

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)

ETHYLBENZENE (CAS 100-41-4)

N-BUTANE (CAS 106-97-8)

PROPANE (CAS 74-98-6)

TITANIUM DIOXIDE (CAS 13463-67-7)

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)

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 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

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

4-Methyl-2-pentanone (CAS 108-10-1) Listed: March 28, 2014

#### **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

Country(s) or region Inventory name On inventory (yes/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)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

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

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

 Issue date
 09-15-2016

 Revision date
 07-19-2019

Version # 02

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

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material will infringe any such patents, and for obtaining any required licenses.

**Revision information** Regulatory information: California Prop 65

Material name: Komatsu Industrial Yellow 8216

No