# SAFETY DATA SHEET

## 1. Identification

Product identifier Maxx Kote Safety Green

Other means of identification

Product Code 8190, 9827, 8343
Recommended use Not available.

Manufacturer/Importer/Supplier/Distributor information

Company nameTifco Industries, Inc.AddressPO 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 1

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 Category 2

hazard

Hazardous to the aquatic environment,

long-term hazard

Category 2

OSHA defined hazards Not classified.

Label elements

**Health hazards** 



Signal word Danger

**Hazard statement** Extremely 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. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Precautionary statement

**Prevention** Obtain

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.

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**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. Collect

spillage.

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** 80.9% of the mixture consists of component(s) of unknown acute hazards to the aquatic

environment. 80.9% 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
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
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
COPPER		7440-50-8	0.1 to <1
ETHYLBENZENE		100-41-4	0.1 to <1
TOLUENE		108-88-3	0.1 to <1
Other components below reportable	levels		10 to <20

<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** 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.

treatment needed

General information IF exposed or concerned:

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).

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Unsuitable extinguishing media

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

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire fighting equipment/instructions

In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose

Specific methods

holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

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

General fire hazards

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

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent entry into waterways, sewer, basements or confined areas. 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.

breathe fumes.

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 Conta Components	minants (29 CFR 1910.1000) Type	Value	Form
2-PENTANONE (CAS	PEL	700 mg/m3	
107-87-9)	T LL	700 mg/m3	
		200 ppm	
ACETONE (CAS 67-64-1)	PEL	2400 mg/m3	
DADUMA OLU EATE (0.0	PE1	1000 ppm	B 1116 "
BARIUM SULFATE (CAS 7727-43-7)	PEL	5 mg/m3	Respirable fraction.
1121-40-1)		15 mg/m3	Total dust.
COPPER (CAS 7440-50-8)	PEL	1 mg/m3	Dust and mist.
,		0.1 mg/m3	Fume.
ETHYLBENZENE (CAS	PEL	435 mg/m3	
100-41-4)		400	
DDODANE (CAS 74 00 0)	DEL	100 ppm	
PROPANE (CAS 74-98-6)	PEL	1800 mg/m3	
TITANIUM DIOXIDE (CAS	PEL	1000 ppm	Total dust.
13463-67-7)	FEL	15 mg/m3	าบเสา นนธเ.
XYLENE (CAS 1330-20-7)	PEL	435 mg/m3	
,		100 ppm	
US. OSHA Table Z-2 (29 CFR 1910.1000)			
Components	Туре	Value	
TOLUENE (CAS 108-88-3)	Ceiling	300 ppm	
	TWA	200 ppm	
US. ACGIH Threshold Limit Values			
Components	Туре	Value	Form
2-PENTANONE (CAS	STEL	150 ppm	
107-87-9)	VILL	тоо ррпп	
ACETONE (CAS 67-64-1)	STEL	750 ppm	
	TWA	500 ppm	
BARIUM SULFATE (CAS	TWA	5 mg/m3	Inhalable fraction.
7727-43-7)	TWA	20 nnm	
ETHYLBENZENE (CAS 100-41-4)	IVVA	20 ppm	
N-BUTANE (CAS 106-97-8)	STEL	1000 ppm	
TITANIUM DIOXIDE (CAS	TWA	10 mg/m3	
13463-67-7)		-	
TOLUENE (CAS 108-88-3)	TWA	20 ppm	
XYLENE (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	
US. NIOSH: Pocket Guide to Chemical H		Value	Form
Components	Туре	Value	Form
2-PENTANONE (CAS	TWA	530 mg/m3	
107-87-9)		150	
ACETONE (CAS 67 64 1)	T\\/A	150 ppm	
ACETONE (CAS 67-64-1)	TWA	590 mg/m3 250 ppm	
BARIUM SULFATE (CAS	TWA	5 mg/m3	Respirable.
7727-43-7)	. **/ 1	o mg/mo	respirable.
,		10 mg/m3	Total
COPPER (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
ETHYLBENZENE (CAS	STEL	545 mg/m3	
100-41-4)		105	
	TWA	125 ppm	
	IVVA	435 mg/m3 100 ppm	
		тоо ррпі	

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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		
TOLUENE (CAS 108-88-3)	STEL	560 mg/m3		
		150 ppm		
	TWA	375 mg/m3		
		100 ppm		
US. Workplace Environmental Exp	oosure Level (WEEL) Guides			
Components	Туре	Value		
PROPYLENE GLYCOL METHYL ETHER ACETATE	TWA	50 ppm		

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

**ACGIH Biological Exposure Indices** 

Components	Value	Determinant	Specimen	Sampling Time	
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	*	
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)	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

(CAS 108-65-6)

TOLUENE (CAS 108-88-3)

Can be absorbed through the skin.

Can be absorbed through the skin.

## 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**

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Liquid. **Physical state** 

Aerosol. Liquefied gas. **Form** 

Color Not available. Odor Not available. **Odor threshold** Not available. рΗ Not available.

Melting point/freezing point -305.68 °F (-187.6 °C) estimated -43.78 °F (-42.1 °C) estimated Initial boiling point and boiling

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

(%)

1.9 % estimated

Flammability limit - upper

(%)

12.8 % estimated

Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available.

Vapor pressure 2592.25 hPa estimated

Vapor density Not available. Not available. Relative density

Solubility(ies)

Not available. Solubility (water) Partition coefficient Not available.

(n-octanol/water)

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

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

Other information

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

Flammability class Flammable IA estimated Heat of combustion (NFPA 22.04 kJ/g estimated

30B)

Oxidizing properties Not oxidizing.

Percent volatile 66.41 Specific gravity 0.87

VOC 2.91 lbs/gal Material

> 348.92 q/l Material 488.88 g/l Regulatory 4.08 lbs/gal Regulatory

## 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. Chemical stability Possibility of hazardous Hazardous polymerization does not occur.

reactions

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.

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## 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 107-87	<del>7</del> -9)	
<u>Acute</u>		
Oral		
LD50	Rat	3.73 g/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
TOLUENE (CAS 108-88-3)		
<u>Acute</u>		
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
		•• •

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Components	Species	Test Results
		12200 ppm, 2 Hours
		8000 ppm, 4 Hours
Oral		
LD50	Rat	2.6 g/kg
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
	Rat	3523 - 8600 mg/kg

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

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

Serious eve damage/eve

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

ETHYLBENZENE (CAS 100-41-4)

2B Possibly carcinogenic to humans.

TITANIUM DIOXIDE (CAS 13463-67-7)

2B Possibly carcinogenic to humans.

TOLUENE (CAS 108-88-3)

3 Not classifiable as to carcinogenicity 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** Toxic to aquatic life with long lasting effects.

	Species	Test Results
87-9)		
LC50	Fathead minnow (Pimephales promelas)	1190 - 1290 mg/l, 96 hours
EC50	Water flea (Daphnia magna)	10294 - 17704 mg/l, 48 hours
		87-9)  LC50 Fathead minnow (Pimephales promelas)

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Components		Species	Test Results
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4740 - 6330 mg/l, 96 hours
BARIUM SULFATE (CAS 7	727-43-7)		
Aquatic			
Crustacea	EC50	Tubificid worm (Tubifex tubifex)	28.61 - 38.03 mg/l, 48 hours
COPPER (CAS 7440-50-8)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	0.036 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	0.0319 - 0.0544 mg/l, 96 hours
ETHYLBENZENE (CAS 10	0-41-4)		
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 1330-20-7) Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	7.711 - 9.591 mg/l, 96 hours

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

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

## **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
TOLUENE	2.73
XYLENE	3.12 - 3.2

No data available. Mobility in soil

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

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

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).

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### 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

UN1950 **UN** number

**UN** proper shipping name UN1950, Aerosols, Flammable

Transport hazard class(es)

Class 2.1 Subsidiary risk 2.1 Label(s)

Not applicable. Packing group

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

UN1950 **UN** number

**UN** proper shipping name Aerosols, Flammable

Transport hazard class(es)

Class 2.1 Subsidiary risk 2.1 Label(s)

Packing group Not applicable.

**Environmental hazards** 

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

Other information

Passenger and cargo Allowed.

aircraft

Cargo aircraft only Allowed.

**IMDG** 

UN1950 **UN** number

Aerosols, Flammable, MARINE POLLUTANT **UN** proper shipping name

Transport hazard class(es)

Class 2.1 Subsidiary risk 2.1 Label(s)

Not applicable. Packing group

**Environmental hazards** 

Marine pollutant Yes

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



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#### IATA; IMDG



#### Marine pollutant



#### **General information**

IMDG Regulated Marine Pollutant. 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. COPPER (CAS 7440-50-8) 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

Material name: Safety Green 8190 sps us

#### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
XYLENE	1330-20-7	1 to <5	
COPPER	7440-50-8	0.1 to <1	
ETHYLBENZENE	100-41-4	0.1 to <1	
TOLUENE	108-88-3	0.1 to <1	

#### Other federal regulations

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

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

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))

ACETONE (CAS 67-64-1) 35 %WV TOLUENE (CAS 108-88-3) 35 %WV

**DEA Exempt Chemical Mixtures Code Number** 

ACETONE (CAS 67-64-1) 6532 TOLUENE (CAS 108-88-3) 594

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

2-PENTANONE (CAS 107-87-9) Low priority ACETONE (CAS 67-64-1) 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))

**ACETONE (CAS 67-64-1)** 

ALIPHATIC SOLVENT MIXTURE (CAS 64741-41-9)

COPPER (CAS 7440-50-8)

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)

**ACETONE (CAS 67-64-1)** 

BARIUM SULFATE (CAS 7727-43-7)

COPPER (CAS 7440-50-8)

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)

**ACETONE (CAS 67-64-1)** 

BARIUM SULFATE (CAS 7727-43-7)

COPPER (CAS 7440-50-8)

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)

**ACETONE (CAS 67-64-1)** 

BARIUM SULFATE (CAS 7727-43-7)

COPPER (CAS 7440-50-8)

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**

ACETONE (CAS 67-64-1) COPPER (CAS 7440-50-8) 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

CARBON BLACK (CAS 1333-86-4)

ETHYL ALCOHOL (CAS 64-17-5)

Listed: April 29, 2011

Listed: July 1, 1988

ETHYLBENZENE (CAS 100-41-4)

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

**Inventory name** 

ETHYL ALCOHOL (CAS 64-17-5) Listed: October 1, 1987 TOLUENE (CAS 108-88-3) Listed: January 1, 1991

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

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

## **International Inventories**

Australia

Country(s) or region

Australia	Additional inventory of orientical oubstances (Aloo)	110
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

Australian Inventory of Chemical Substances (AICS)

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

 Issue date
 08-14-2015

 Revision date
 06-20-2019

Material name: Safety Green 8190

On inventory (yes/no)\*

Nο

<sup>\*</sup>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).

Version # 04

**HMIS® ratings** Health: 2\*

Flammability: 4 Physical hazard: 0

NFPA ratings Health: 2

Flammability: 4 Instability: 0

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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 Hazard(s) identification: Hazard statement

Fire-fighting measures: General fire hazards

Exposure controls/personal protection: Respiratory protection

Exposure controls/personal protection: Other

Stability and reactivity: Possibility of hazardous reactions

Other information, including date of preparation or last revision: Disclaimer

Material name: Safety Green 8190 sps us