

SAFETY DATA SHEET

Revision date 16-Nov-2016

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product identifier	
Product code	C013200-PG
Product name	MUSCONE-L
Other means of identification	
Customer Material Code	GCAS# 98579794
Synonyms	No information available
Recommended use of the chemical	I and restrictions on use
Recommended use	Concentrated aromatic raw material intended for manufacturing use
Details of the Supplier of the Safety	y Data Sheet
Supplier Address	
Takasago International Corporation (I	JSA)
4 Volvo Drive	
Rockleigh, NJ 07647 USA	
Phone: 1-201-767-9001	
Emergency telephone number	
Company Phone Number	Health & Environmental: 1-201-767-9001 9 a.m - 5 p.m. EST M-F
Emergency telephone number	CHEMTREC: 1-800-424-9300 24 hours Everyday CHEMTREC (International): 01-703-527-3887 [U.S.A.] 24 hours Everyday

2. Hazard identification

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements

The product contains no substances which at their given concentration, are considered to be hazardous to health

Hazards Not Otherwise Classified (HNOC) None known

Other informationOther HazardsNone known

3. Composition/information on Ingredients

Formula

C16H30O

Hazardous components

	CAS No	Concentration	Trade secret
3-Methylcyclopentadecan-1-one	541-91-3	>=99	

4. First aid measures

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General advice	When in doubt or if symptoms are observed, get medical advice.	
Inhalation	Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician.	
Skin contact	Change contaminated, saturated clothing. After contact with skin, wash immediately with plenty of water and soap. In case of skin reactions, consult a physician.	
Eye contact	In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.	
Ingestion	If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting.	
Self-protection of the first aider	Use personal protection recommended in Section 8.	
Most Important Symptoms and Effects, Both Acute and Delayed		
Symptoms	No known symptoms to date.	
Indication of Any Immediate Medical Attention and Special Treatment Needed		
Note to physicians	Treat symptomatically.	
5. Fire-fighting measures		

Suitable extinguishing media

Foam. Carbon dioxide (CO2). Dry extinguishing powder.

Large Fire Alcohol resistant foam. Water spray.

Unsuitable extinguishing media Full water jet.

Special hazards arising from the substance or mixture

In case of fire may be liberated, Carbon monoxide, Carbon dioxide (CO2), Burning produces heavy smoke, Do not inhale explosion and combustion gases.

Protective equipment and precautions for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Use water spray jet to protect personnel and to cool endangered containers. Move undamaged containers from immediate hazard area if it can be done safely. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Use personal protection recommended in Section 8. Remove all sources of ignition. Provide adequate ventilation as well as local exhaustion at critical locations. See section 7 for more information.
For emergency responders	Use personal protection recommended in Section 8.

Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Ensure waste is collected and contained.

Methods and material for containr	
Methods for cleaning up	Clean contaminated surface thoroughly.
	7. Handling and Storage
Precautions for Safe Handling	
Advice on safe handling	Avoid contact with skin, eyes or clothing. Wear protective gloves and eye/face protection. See Section 8 for information on appropriate personal protective equipment. Remove all sources of ignition. Provide adequate ventilation as well as local exhaustion at critical locations. Handle and open container with care.
Conditions for safe storage, inclue	ding any incompatibilities
Storage conditions	Keep container tightly closed in a cool, well-ventilated place. Store in a dry place. Protect from direct sunlight. Remove all sources of ignition. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.
	8. Exposure Controls/Personal Protection
Control Parameters	
Exposure guidelines	This product does not contain any substances with occupational exposure limits established by OSHA under 29 CFR 1910 subpart Z, ACGIH or NIOSH
Appropriate Engineering Controls	
Engineering controls	Provide adequate ventilation as well as local exhaustion at critical locations. Do not subject to unnecessarily high temperatures during processing.
Individual protection measures, se	uch as personal protective equipment
Eye/face protection	Eye glasses with side protection.
Hand protection	Wear chemically resistant gloves in combination with 'basic' employee training.
Skin and body protection	Wear appropriate personal protective clothing to prevent skin contact.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and after work. Do not eat, drink or smoke when using this product.
FEMA Statement	This product does not contain any substances at ≥0.1% listed as High Priority in Table 1 of the Flavor and Extract Manufacturers Association of the United States Respiratory Health and Safety in the Flavor Manufacturing Workplace (2012 edition) This product does not contain any substances at ≥1.0% listed as Low Priority in Table 1 of the Flavor and Extract Manufacturers Association of the United States Respiratory Health and Safety in the Flavor Manufacturers Association of the United states Respiratory Health and Safety in the Flavor Manufacturers Association of the United States Respiratory Health and Safety in the Flavor Manufacturers Manufactures (2012 edition)

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Colorless to pale yellow liquid
Color Odor	Colorless to pale yellow Characteristic
Odor threshold	No data available

Property pH	<u>VALUES</u> No data available	Remarks • Method
Melting point / freezing point	No data available	
Boiling point / boiling range	No data available	
Flash point	> 100 °C / > 212 °F	Closed cup
Evaporation rate	No data available	•
Flammability (solid, gas)	No data available	
Flammability limit in air		
Upper flammability limit	No data available	
Lower flammability limit	No data available	
Vapor pressure	0.00025 mmHg@20°C (calculated)	
Vapor density	No data available	
Relative Density	0.913-0.923 (D25°C/25°C)	
Relative Density	No data available	
Water solubility	No data available	
Solubility in other solvents	No data available	
Partition coefficient: n-octanol/wate		
Autoignition temperature	No data available	
Decomposition temperature	No data available	
Kinematic viscosity	No data available	
Dynamic viscosity	No data available	
Explosive Properties	No data available	
Oxidizing Properties	No data available	
Other information		
Molecular weight	238.42	
Refractive Index	1.476-1.482 (n20°C/D)	

10. Stability and Reactivity

Reactivity

None under normal use conditions.

Chemical stability

Stable under normal conditions. Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Extremes of temperature and direct sunlight. Do not heat closed containers.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

Hazardous decomposition products

None under normal use.

11. Toxicological Information

Information on Likely Routes of Exposure

Product Information	No data available.
Inhalation	No data available.
Eye contact	No data available.
Skin contact	No data available.

Ingestion	No data available.	
Information on Toxicological Effects		
Symptoms	No information available.	
Delayed and immediate effects as w	ell as chronic effects from short and long-term exposure_	
Skin corrosion/irritation	A 48-hour closed patch test conducted on humans at 30% resulted in no effects. Material was observed to be irritating when 5 g/kg was applied during a rabbit dermal LD50 study.	
Sensitization	A human maximization test conducted at 30% resulted in no effects.	
Mutagenic effects	No information available.	
Carcinogenicity	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.	
Reproductive toxicity	No information available.	
STOT - single exposure	No information available.	
STOT - repeated exposure		
Subchronic toxicity	A 30 day oral gavage study conducted on rats resulted in no effects at doses up to 1000mg/kg.	
Aspiration hazard	No information available.	
Numerical Measures of Toxicity - Product Information		
Oral LD50 Dermal LD50	> 5000 mg/kg (rats) > 5000 mg/kg (rabbit)	
	12. Ecological Information	
Ecotoxicity Persistence and degradability	No information available. No information available.	
Bioaccumulative potential	No information available	
Other adverse effects	No information available	
13. Disposal Considerations		
Waste Treatment Methods		
Waste disposal method	Dispose of in accordance with local regulations.	
Contaminated packaging	Do not reuse container.	
14. Transport Information		
DOT_Non-bulk Packaging UN/ID no Proper Shipping Name Hazard Class Packing group	Not regulated Not regulated Not regulated Not regulated	

Marine Pollutant	Not regulated
<u>Air transport (ICAO-TI / IATA-DGR)</u> UN/ID no Proper Shipping Name Hazard Class Packing group	Not regulated Not regulated Not regulated Not regulated
Sea transport (IMDG) UN/ID no Proper Shipping Name Hazard Class Packing group Marine Pollutant	Not regulated Not regulated Not regulated Not regulated Not regulated Not regulated

15. Regulatory Information

Federal Regulations

<u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazardous Categorization -

Acute health hazard	No
Chronic health hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

16. Other Information

Revision date

16-Nov-2016

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. 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. Where the handling, storage and disposal of this material is beyond the immediate control of Takasago, it shall be the user's responsibility to determine safe conditions for use of this product. The user assumes all liability for loss, injury, damage or expense resulting from the improper use of this product.

End of Safety Data Sheet