

## **SAFETY DATA SHEET**

## 1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT CODE H0006

**PRODUCT NAME** 2,3,5-TRIMETHYL PYRAZINE

**SUPPLIER** Shanghai M & U International Trade Co., Ltd.

Rm 1717, No 598 North NuJiang Road

200333 Shanghai, China +86-21-32515501 32515502

sales@mu-intel.com

FOR EMERGENCIES CALL CHEMTREC: 1-800-424-9300 (24-HOURS)

## 2. HAZARD IDENTIFICATION:

Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapor.



GHS06 Skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

## **Label elements**

Harmful in contact with skin or if inhaled.

#### **GHS** label elements

Pictograms on label shall be in the shape of a square set at a point and shall include a black hazard symbol on a white background with a red frame sufficiently wide to be clearly visible. The substance is classified and labeled according to the Globally Harmonized System (GHS).

## Hazard pictograms



## Signal word

Danger

## Hazard-determining components of labeling:

2,3,5-Trimethyl Pyrazine

## **Hazard statements**

H226	Flammable liquid and vapor.
H301	Toxic if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

## **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P301+P310 If swallowed: Immediately call a poison center/doctor.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

## **Classification system:**

NFPA ratings (scale 0 - 4)



 $\begin{aligned} & Health = 2 \\ & Fire = 2 \\ & Reactivity = 0 \end{aligned}$ 

## HMIS-ratings (scale 0 - 4)



Health = 2 Fire = 2

Reactivity = 0

Other hazards Results of PBT and vPvB assessment PBT:

Not applicable.

## vPvB:

Not applicable.

## 3. COMPOSITION AND INFORMATION ON INGREDIENTS:

**Chemical characterization: Substances** 

CAS No.: 14667-55-1

**Description:** 2,3,5-Trimethyl Pyrazine

**Identification number(s) EC number:** 238-712-0

## 4. FIRST-AID GUIDE:

## Description of first aid measures

## **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

#### **After inhalation:**

In case of unconsciousness place patient stably in side position for transportation.

## **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

## **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

## **After swallowing:**

Immediately call a doctor.

## **Information for doctor:**

## Most important symptoms and effects, both acute and delayed

No further relevant information available.

## Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## 5. FIRE-FIGHTING GUIDE:

## **Extinguishing media**

## **Suitable extinguishing agents:**

CO2 or extinguishing powder. Fight larger fires with alcohol resistant foam.

## Special hazards arising from the substance or mixture

No further relevant information available.

## **Advice for firefighters**

## **Protective equipment:**

No special measures required.

## **Additional information**

Cool endangered receptacles with water spray.

Collect contaminated firefighting water separately. It must not enter the sewage system.

## 6. ACCIDENTAL RELEASE GUIDE:

## Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

## **Environmental precautions:**

Dilute with plenty of water.

## Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

## 7. HANDLING AND STORAGE:

## **Handling:**

## **Precautions for safe handling**

No special precautions are necessary if used correctly.

## Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

# Conditions for safe storage, including any incompatibilities

**Storage:** 

## Requirements to be met by storerooms and receptacles:

No special requirements.

## Information about storage in one common storage facility:

Not required.

## **Further information about storage conditions:**

Keep receptacle tightly sealed.

## Specific end use(s)

No further relevant information available.

## Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 8. EXPOSURE AND PERSONAL PROTECTION:

## Additional information about design of technical systems:

No further data; see item 7.

## **Control parameters**

## Components with limit values that require monitoring at the workplace:

Not required.

## **Additional information:**

The lists that were valid during the creation were used as a basis.

## **Exposure controls**

## **Personal protective equipment:**

## General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

## **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

## **Protection of hands:**



The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material should be based on consideration of the penetration times, rates of diffusion and the degradation

## **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

## Penetration time of glove material

The exact break through time has to be determined by the manufacturer of the protective gloves and has to be observed.

## **Eye protection:**



Tightly sealed goggles

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

Information on basic physical and chemical properties

General Information	Sur proportios
Appearance:	
Form:	Liquid
Color:	Light yellow
Odor:	Roasted
<b>Odour threshold:</b>	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
<b>Boiling point/Boiling range:</b>	171 °C (340 °F)
Flash point:	54 °C (129 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	
<b>Decomposition temperature:</b>	Not determined.
Auto igniting:	Not determined.
Danger of explosion:	Product is not explosive. However, formation of
	explosive air/vapor mixtures are possible.
<b>Explosion limits:</b>	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not determined.
<b>Density at 20 °C (68 °F):</b>	0.975 g/cm <sup>3</sup> (8.136 lbs/gal)

Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with Water:	Fully miscible.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Organic solvents:	0.0 %
Other information	No further relevant information available.

## 10. STABILITY AND REACTIVITY:

## Reactivity

No further relevant information available.

## **Chemical stability**

## Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

## Possibility of hazardous reactions

No dangerous reactions known.

## **Conditions to avoid**

No further relevant information available.

## **Incompatible materials:**

No further relevant information available

## **Hazardous decomposition products:**

No dangerous decomposition products known.

## 11. TOXICOLOGICAL INFORMATION:

## **Information on toxicological effects**

**Acute toxicity:** 

**Primary irritant effect:** 

On the skin:

Irritant to skin and mucous membranes.

## On the eye:

Irritating effect.

## **Sensitization:**

No sensitizing effects known.

## Additional toxicological information:

Carcinogenic categories

IARC (International Agency for Research on Cancer)

Substance is not listed.

## NTP (National Toxicology Program)

Substance is not listed

## OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

## 12. ECOLOGICAL INFORMATION:

## **Toxicity**

## **Aquatic toxicity:**

No further relevant information available.

## Persistence and degradability

No further relevant information available.

## Behavior in environmental systems:

**Bioaccumulative potential** 

No further relevant information available.

## Mobility in soil

No further relevant information available.

## Additional ecological information:

**General notes:** 

Generally not hazardous for water

## Results of PBT and vPvB assessment

PBT:

Not applicable.

## vPvB:

Not applicable.

## Other adverse effects

No further relevant information available.

## 13. DISPOSAL RECOMMENDATIONS:

# Waste treatment methods

**Recommendation:** 

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

## **Uncleaned packagings:**

## **Recommendation:**

Disposal must be made according to official regulations.

## **Recommended cleansing agent:**

Water, if necessary with cleansing agents.

## 14. TRANSPORTATION INFORMATION:

UN-Number	
DOT, ADR, IMDG, IATA	UN1993
UN proper shipping name	
DOT	Flammable liquids, n.o.s. (2,3,5-Trimethyl Pyrazine)
ADR	1993 Flammable liquids, n.o.s. (2,3,5-Trimethyl Pyrazine)
IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (2,3,5-Trimethyl Pyrazine)
Transport hazard class(es)	
DOT, ADR, IMDG, IATA	
Class	3 Flammable liquids
Packing group	
DOT, ADR, IMDG, IATA	III
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Transport in bulk according to	
Annex II of MARPOL73/78 and	Not applicable.
the IBC Code	
Transport/Additional information:	
DOT	
<b>Quantity limitations</b>	On passenger aircraft/rail: 60 L
	On cargo aircraft only: 220 L
ADR	
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUILIQUIDS, N.O.S. (2,3,5-
	TRIMETHYL PYRAZINE), 3, III

## 15. REGULATORY INFORMATION:

# Safety, health and environmental regulations/legislation specific for the substance or mixture

Sara

## Section 355 (extremely hazardous substances):

Substance is not listed.

## Section 313 (Specific toxic chemical listings):

Substance is not listed.

## **TSCA (Toxic Substances Control Act):**

Substance is listed.

## **Proposition 65**

## Chemicals known to cause cancer:

Substance is not listed.

## Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

## Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

## Chemicals known to cause developmental toxicity:

Substance is not listed.

## Carcinogenic categories

## **EPA** (Environmental Protection Agency)

Substance is not listed

## **TLV** (Threshold Limit Value established by ACGIH)

Substance is not listed.

## NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

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contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with

local/regional/national/international regulations.

## **Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

#### **16. OTHER INFORMATION:**

The information in this SDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond M&U's control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume liability for loss, damage, or expense arising out of the products improper use. No warranty expressed or implied regarding the product described herein will be created by or inferred from any statement or omission in the SDS. Various federal, state, or provincial agencies may have specific regulations concerning the transportation, handling, storage, use, or disposal of this product which may not be reflected in the SDS. The user should review these regulations to ensure full compliance.

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