# SAFETY DATA SHEET

# MAP PRO

NINGBO YIHE REFRIGERATION EQUIPMENT CO., LTD

According to GHS (Eighth Revised Edition)



# Section 1 Product and Company Identification

> Product Identifier

**Product Name** 

MAP PRO

Synonyms

.

CAS No.

115-07-1

EC No.

204-062-1

Molecular Formula

CH3CHCH2

> Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Relevant Identified

Uses

Please consult manufacturer.

**Uses Advised Against** 

Please consult manufacturer.

> Details of the Supplier of the Safety Data Sheet

Supplier Name

NINGBO YIHE REFRIGERATION EQUIPMENT CO.,LTD

**Supplier Address** 

A3309 HEBANG MANSION NO.933 TIANTONG NORTH ROAD NINGBO CHINA

Supplier Post Code

315000

**Supplier Telephone** 

+86-574-81859926

Supplier Fax

+86-574-87143918

Supplier E-mail

sunny.zhang@retoent.com

> Emergency Phone Number

**Emergency Phone** 

Number

e

+86-570-3832752

## Section 2 Hazards Identification

Hazard class and label elements of the product according to GHS (the eighth revised edition):

> GHS Hazard Class

Flammable Gases

Category 1A

**Gases Under Pressure** 

Liquefied gas

## > GHS Label Elements

**Pictogram** 



Signal Word Danger

> Hazard Statements

**H220** Extremely flammable gas

H280 Contains gas under pressure; may explode if heated

> Precautionary Statements

Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

Response

P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

P381 In case of leakage, eliminate all ignition sources.

Storage

P403 Store in a well-ventilated place.

P410+P403 Protect from sunlight. Store in a well-ventilated place.

Disposal

Not applicable

# Section 3 Composition/Information on Ingredients

Component Concentration (weight percent, %)

C3H6

99.6

CAS No.

EC No.

204-062-1

### Section 4 First Aid Measures

### > Description of First Aid Measures

General Advice Immediate medical attention is required. Show this safety data sheet (SDS) to

the doctor in attendance.

Rinse thoroughly with plenty of water for at least 15 minutes and consult a

physician if feel uncomfortable.

Skin Contact

Take off contaminated clothing and shoes immediately. Wash off with plenty of

water for at least 15 minutes and consult a physician if feel uncomfortable. Do not induce vomiting. Never give anything by mouth to an unconscious

person. Call a physician or Poison Control Center immediately.

Move victim into fresh air. If breathing is difficult, give oxygen. Do not use

**Inhalation** mouth to mouth resuscitation if victim ingested or inhaled the substance. If not

breathing, give artificial respiration and consult a physician immediately.

Protecting of Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

### > Most Important Symptoms and Effects, both Acute and Delayed

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

# > Indication of Any Immediate Medical Attention and Special Treatment Needed

- 1 Treat symptomatically.
- 2 Symptoms may be delayed.

## **Section 5** Fire Fighting Measures

## > Extinguishing Media

**Suitable Extinguishing** 

Dry chemical, carbon dioxide or water spray.

Media Unsuitable

Extinguishing Media

Do not use a solid water stream as it may scatter or spread fire.

## > Specific Hazards Arising from the Substance or Mixture

- 1 Flammable: will be easily ignited by heat, sparks or flames.
- 2 Will form explosive mixtures with air.
- Fire exposed containers may vent contents through pressure relief valves thereby increasing fire intensity and/ or vapour concentration.
- 4 Vapours may travel to source of ignition and flash back.
- 5 Containers may explode when heated.
- 6 Fire exposed containers may vent contents through pressure relief valves.
- 7 May expansion or decompose explosively when heated or involved in fire.

## > Advice for Firefighters

- As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2 Fight fire from a safe distance, with adequate cover.
- 3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

### Section 6 Accidental Release Measure

## > Personal Precautions, Protective Equipment and Emergency Procedures

- 1 Avoid breathing vapors and contacting with skin and eye.
- 2 Beware of vapours accumulating to form explosive concentrations.
- 3 Vapours can accumulate in low areas.
- Emergency personnel wear positive pressure self-contained breathing apparatus. Wear protective and anti-static clothing. Wear chemical impermeable gloves.
- 5 Ensure adequate ventilation. Remove all sources of ignition.
- 6 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
- 7 Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

## > Environmental Precautions

- 1 Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.

### > Methods and Materials for Containment and Cleaning Up

- Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
- Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

3 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

## Section 7 Handling and Storage

## > Precautions for Handling

- 1 Avoid inhalation of vapors.
- 2 Use only non-sparking tools.
- To prevent fire caused by electrostatic discharge steam, equipment on all metal parts should be grounded.
- 4 Use explosion proof equipment.
- 5 Handling is performed in a well ventilated place.
- 6 Wear suitable protective equipment.
- 7 Avoid contact with skin and eyes.
- 8 Keep away from heat/sparks/open flames/ hot surfaces.
- 9 Take precautionary measures against static discharges.

## > Precautions for Storage

- 1 Keep containers tightly closed.
- 2 Keep containers in a dry, cool and well-ventilated place.
- 3 Keep away from heat/sparks/open flames/ hot surfaces.
- 4 Store away from incompatible materials and foodstuff containers.

# **Section 8 Exposure Controls/Personal Protection**

### > Control Parameters

**Occupational Exposure Limit Values** 

	6	Limit Value	- Eight Hours	<b>Limit Value - Short Term</b>		
Component	Country/Region	ppm	mg/m³	ppm	mg/m³	
C3H6 115-07-1	Switzerland	10000	17500	- T-	-	
	Latvia	-	100	-	-	
	Ireland	500	-	-		
	Denmark	100	172	200	344	
	Denmark	100	172	200	344	
	Canada - Ontario	500	-	-		

### **Biological Limit Values**

No information available

### **Monitoring Methods**

- 1 EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
- GBZ/T 160 Determination of toxic substances in workplace air(Series effective standard)and GBZ/T 300 Determination of toxic substances in workplace air(Series standard).

### > Engineering Controls

- 1 Ensure adequate ventilation, especially in confined areas.
- 2 Ensure that eyewash stations and safety showers are close to the workstation location.
- 3 Use explosion-proof electrical/ventilating/lighting/equipment.

DG2050459E MAP PRO

4 Set up emergency exit and necessary risk-elimination area.

## > Personal Protection Equipment

Relative Density(Water=1): Not applicable

Particle characteristics: Not applicable

Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US). **Eye Protection** 

Wear protective gloves (such as butyl rubber), passing the tests according to **Hand Protection** 

EN 374(EU), US F739 or AS/NZS 2161.1 standard.

If exposure limits are exceeded or if irritation or other symptoms are

experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.

**Body** Skin and

Protection

Respiratory protection

Wear fire/flame resistant/retardant clothing and antistatic boots.

#### **Physical and Chemical Properties** Section 9

Odor: No information available Appearance: Colorless liquefied gas

Odor Threshold: No information available pH: Not applicable

Initial Boiling Point and Boiling Range (°C): -48 Melting Point/Freezing Point (°C): -185

Evaporation Rate: Not applicable Flash Point (°C)( Closed Cup): Not applicable

Upper/lower explosive limits[%(v/v)]: Upper limit: Flammability: No information available

10.3; Lower limit: 2.4

Relative Vapour Density(Air = 1): Not applicable Vapor Pressure (KPa): Not applicable

Solubility: Insoluble in water

n-Octanol/Water Partition Coefficient: Not Auto-Ignition Temperature(°C): 460 applicable

**Decomposition Temperature (°C):** No information Kinematic Viscosity (mm<sup>2</sup>/s): Not applicable available

#### **Stability and Reactivity** Section 10

Contact with incompatible substances can cause decomposition or other Reactivity

chemical reactions.

**Chemical Stability** Stable under proper operation and storage conditions.

Possibility of Products of the addition reactions with nitrogen dioxide, nitrogen oxides or

**Hazardous Reactions** ammonia which form nitrogen oxides may cause an explosion.

**Conditions to Avoid** Incompatible materials, heat, flame and spark.

**Incompatible Materials** Nitrogen dioxide, nitrogen oxide, ammonia, Oxidantss, halogenated alkanes,

and halogen.

Hazardous

Decomposition

products

Under normal conditions of storage and use, hazardous decomposition

products should not be produced.

#### Section 11 **Toxicological Information**

# > Acute Toxicity

No information available

### > Skin Corrosion/Irritation

No information available

## > Serious Eye Damage/Irritation

No information available

### > Skin Sensitization

No information available

## > Respiratory Sensitization

No information available

### > Germ Cell Mutagenicity

No information available

## > Carcinogenicity

ID CAS No.		Component	IARC	NTP	
1	115-07-1	C3H6	Category 3	Not Listed	

## > Reproductive Toxicity

No information available

## > Reproductive Toxicity (Additional)

No information available

### > STOT-Single Exposure

No information available

### > STOT-Repeated Exposure

No information available

### > Aspiration Hazard

No information available

# Section 12 Ecological Information

# > Acute Aquatic Toxicity

No information available

## > Chronic Aquatic Toxicity

No information available

### > Others

Persistence and Degradability Bioaccumulative Potential

No information available

No information available

Mobility in Soil No information available

Results of PBT and **vPvB** Assessment

C3H6 does not meet the criteria for PBT and vPvB according to Regulation (EC)

No 1907/2006, annex XIII.

## Section 13 Disposal Considerations

**Waste Chemicals** 

Before disposal should refer to the relevant national and local laws and

regulation. Recommend the use of incineration disposal.

Contaminated **Packaging** Disposal

Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.

Refer to section 13.1 and 13.2.

Recommendations

# Section 14 Transport Information

## **Transporting Label**



Marine pollutant

None

**UN Number** 

1077

**UN Proper Shipping** Name

**PROPYLENE** 

**Transport Hazard Class** 

2.1

**Transport Subsidiary Hazard Class** 

NONE

**Packing Group** 

The packagings must conform to package instructions of UN number

#### Section 15 **Regulatory Information**

### > International Chemical Inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
C3H6	<b>√</b>	<b>√</b>	√	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	√	<b>√</b>

[EINECS] European Inventory of Existing Commercial Chemical Substances.

United States Toxic Substances Control Act Inventory. [TSCA]

Canadian Domestic Substances List. [DSL]

China Inventory of Existing Chemical Substances. [IECSC]

[NZIoC] New Zealand Inventory of Chemicals.

Philippines Inventory of Chemicals and Chemical Substances. [PICCS]

Existing and Evaluated Chemical Substances. [KECI]

Australia Inventory of Chemical Substances. [AICS]

Existing And New Chemical Substances. [ENCS]

### Note

Indicates that the substance included in the regulations

"x" That no data or included in the regulations

## Section 16 Additional Information

Creation Date
Revision Date

2020/06/23 2020/06/23

**Reason for Revision** 

### > Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 8th revised edition). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.