

MATERIAL SAFETY DATA SHEET (MSDS)



Product Number: SS789
Product Name: Precision contact cleaner
Re-issued Date: February 08, 2023

01. IDENTIFICATION OF SUBSTANCE, PREPARATION AND COMPANY:

- a. **Trade Name** : Precision contact cleaner
b. **Manufacturer/Supplier** : SPRAYWAY SINGAPORE PTE LTD
c. **Address** : 1 Tampines North Drive 1 #04-12,
T Space , Singapore 528559
d. **Telephone/Fax** : Tel: (65) 6744 3075, Fax: (65) 6744 3095
e. **Company Emergency Information:**
Tel: (65) 6744 3075

02. COMPOSITION / INFORMATION ON COMPONENTS:

Chemical Characterization: Preparation of active agent, solvent and propellant.

a. **Form:** Aerosol

b. Components	Concentration	CAS No
Methyl Alcohol	0.2%-0.8%	67-56-1
Cyclohexone	15%-25%	110-82-7
Pentane	25%-35%	109-66-0
3 Methylpentane	10%-20%	107-83-5
2 Methylpentane	1%-5%	96-14-0
Di2,3 methylbutane	2%-8%	79-29-8
2/2 Dimethylbutane	2%-8%	75-83-2
Isoparaffinic Solvent	5%-15%	64741-66-8
Heptane	2%-8%	142-82-5
Carbon Dioxide	2%-8%	124-38-9

03. HAZARDS IDENTIFICATION:

Hazard Designation: flammable to open flames.

Particular Information Pertaining specification for Environment:

The product is not water polluting.

In use, may form flammable/explosive vapor-air mixture.

04. FIRST AID MEASURES:

Skin Contact:

Take off polluted/dirty clothes, wash away with soap and water and rinse.

Eye Contact:

Open the eyes completely, flush with plenty of water or brine (min 15 minutes), and then go to doctor.

Inhalation:

Inhalation of aerosols or steam in high concentration:

Let in fresh air, remove the concerned to fresh air area, keep breathing smoothly, while breathing difficultly, transfer oxygen, if breath and hear stop working, please use artificial respiration and heart massage method, then take to the hospital.

Ingestion:

Do not induce vomiting

Flush with plenty of water.

Keep at rest

Call a doctor.

05. FIRE – FIGHTING MEASURES:**Hazards designation:**

Extremely Flammable, causing explosive mixture meeting vapor and air.

Extremely explosive while contacting fire and overheated matters. Easily concentrated static electro power could cause explosive danger. Come in to heavy fire while contact fire.

Hazard Decomposition Elements: Co Co₂

Extinguishing Media – Suitable:

Extinguishing Powder

Carbon Dioxide

Foam

Sand

Notice:

Water is useless for putting off fire.

06. ACCIDENTAL RELEASE MEASURES:**Emergency Handle:**

Remove ignition sources. Immediately remove person concerned out of danger to safe area, and make separation, strictly limit their incoming and out coming.

Emergency Working Man should wear formal breathing apparatus, and put on hazard proof clothes. Manage to cut off the discharge source, avoid the material flow into the drains and other limited spaces.

Small Discharge: Collect all the discharged liquid to the sealed container, using sand, active carbon or other safe material to absorb the liquid or to decompose the liquid.

07. HANDLING AND STORAGE:**Handling**

Pressurized container: Do not pierce or burn, even after use. Do not handle or store near an open flame, heat or other sources of ignition. Use only in area provided with

appropriate exhaust ventilation. Do not use if spray button is missing or defective. Do not get this material in contact with eyes. Do not get this material in contact with skin. Wear personal protective equipment. Avoid prolonged exposure.

Storage

Level 1 Aerosol.

Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Keep away from heat, sparks, and flame. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Avoid exposure to long periods of sunlight. Keep out of the reach of children. Do not store, incinerate, or heat this material above 120 degrees Fahrenheit.

08. CONTACT CONTROL / PERSONNEL PRECAUTION:

Engineering Measures:

Close while production; make sure the ventilation is adequate.

Breathing System Precaution:

While the density of the air is up to the standard, suggest to wear filter and anti-hazard mask. Wearing air breathing apparatus or Oxygen Apparatus while doing emergency help and withdrawal.

Eye Protection:

Wearing Chemical Safety Protective Glass

Body Protection: Wearing anti-harm penetrate work clothes

Hand Protection: Wearing Anti Oil rubber gloves

Other Protection:

Do not eat or drink during work, no smoking, Wash after working and change clothes, make physical inspection regularly and before starting new job.

09. PHYSICAL AND CHEMICAL PROPERTIES:

Image

Form : Aerosol
Color : White
Odor : Light fragrance

Relevant Safety Data:

PH Value : 6.8
Relative Densities : 0.715
Melting Point : -85°C
Relative vapor density : 0.73
Boiling Point : 25°C -30°C
Saturated vapor pressure(Kpa) : 15.5/25°C
Limited Temperature : 245.5 °C
Flash Point : 35°C
Ignition Temperature : 200°C

Inflammation calorific(kg/mol) : 2335
Limited Pressure (Mpa) : 4.8
Explosive Limits (up %)(V/V) : 9%
Explosive Limits (lower%)(V/V) : 7%

10. STABILITY AND REACTIVITY:

Dangerous decomposition products:

None, if handled according to order.

Further information:

Danger of bursting.

11. TOXICOLOGICAL INFORMATION:

Acute effects

Acute LC50:1409 mg/l/4h estimated, Rat, Inhalation

Component analysis- LD50

Toxicology Data-Selected LD50s and LC50s

Pentane 109-66-0 inhalation LC50 Rat 658mg/L 4h

Sensitization Not expected to be hazardous by OSHA criteria

Carcinogenicity Hazardous by OSHA criteria

IARC- Group 2A (Probably Carcinogenic to Humans)

IARC- Group 2B (Possibly Carcinogenic to Humans)

Pentane 109-66-0 Monograph 60(1994); Supplement 7(1987)

Teratogenicity Not expected to be hazardous by OSHA criteria

12. ECOLOGICAL INFORMATION:

Ecotoxicity

Components of this product are hazardous to aquatic life.

LC50 23.22 mg/L estimated, Fish,96.00 Hours,

EC50 35.02 mg/L estimated,Daphnia, 48.00 Hours.

13. DISPOSAL CONSIDERATION:

Disposal matter feature: Dangerous wastes

Disposal method:

Do not empty into waters or drains.

Using controlled fire disposal.

Contaminated Packaging Recommendation:

Contaminated packaging must be emptied of all residues and following appropriate cleaning, may be sent to a recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium.

14. TRANSPORT INFORMATION:

a. Land Transport: ADR/RID and GGVS/GGVE

Classification:

GGVS/GGVE : Class 2.1 Number 5 Letter F

RID/ADR : Class 2.1 Number 5 Letter F

Package:

Tremoard

UN 1950

Instruction

“UN 1950 Aerosol, Class 2, 1. Limited quantities” ADR/RID

Approved for conveyance by post (Y/N): National J

International N

b. Inland waterways: AND/ADNR

Classification: AND/ADNR: Class ADR

Proper Shipping name: Aerosol

c. Maritime Transport: IMDG/GGVSea

Classification:

IMDG-Code: 32200

UN-Number: 1950

Technical Name: Aerosol

Packaging:

Packaging Group: II

d. Air Transportation: ICAO-TI and IATA-DGR

Classification:

ICAO/IATA: 2.1

UN-Number: 1950

Technical Name: Aerosol

Packaging:

Packaging Group: II

Tremoard: 2.1

15. REGULATORY INFORMATION:

Classification according to EEC directives

Danger Symbol and danger designation:

F+ Extremely Flammable

Xi Irritant

Risk-Phrases:

Extremely Flammable

In use, may form flammable / explosive vapor-air mixture

Irritating to eyes

Vapors may cause drowsiness and dizziness.

Safety-Phrases:

Keep out of reach of children

Keep away from sources of ignition-no smoking

Do not breathe spray (Appropriate Wording to be specified by the manufacturer)

In case of Contact with eyes, rinse immediately with plenty of water and seek medical advice.

Do not empty into drains

If swallowed, seek medical advice immediately and show this container or label.

Use only in well-ventilated area.

16. OTHER INFORMATION:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.