

SAFETY DATA SHEET (SDS)

1. Product Identifier

Product name : **RST-VP 420**
Manufacture / Supplier : MISUMI Corporation
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2. Hazards Identification

GHS classification

Physical Hazards

Aerosols : Category 1

Health Hazards

Acute toxicity (inhalation : vapor) : Category 5

Skin corrosion / irritation : Category 2

Serious eye damage / eye irritation : Category 2

Specific target organs / systemic toxicity following single exposure :
 Category 3 (Respiratory tract irritation)

Specific target organs / systemic toxicity following repeated exposure :
 Category 2

Aspiration hazard : Category 1

Environmental Hazards

Hazardous to the aquatic environment (acute) : Category 1

Hazardous to the aquatic environment (chronic) : Category 1

GHS label elements

GHS Symbol



Single Word

Danger

Hazard statement

- Extremely flammable aerosol.
- Pressurized container: may burst if heated.
- May be harmful if inhaled.
- Causes skin irritation.
- Causes serious eye irritation.
- May cause drowsiness or dizziness.
- May be fatal if swallowed and enters airways.
- May cause damage to organs through prolonged or repeated exposure.
- Very toxic to aquatic life with long lasting effects

Prevention precautionary statements

Prevention

- Keep away from heat / sparks / open flames / hot surfaces – No smoking.
- Pressurized container – Do not pierce or burn, even after use.

- Do not spray on an open flame or other ignition source.
- Use explosion-proof electrical / ventilating / lighting equipment.
- Use only non-sparking tools.
- Wear protective gloves / protective clothing / eye protection / face protection.
- Take precautionary measures against static discharge.
- Wash skin and eyes thoroughly after handling.
- Avoid breathing mist / vapors / spray.
- Avoid release to the environment.

Response

- IF ON SKIN (or hair) : Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.
- IF SWALLOWED : Immediately call a POISON CENTER or doctor / physician. Rinse mouth.
- IF INHALED : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF IN EYES : Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
- Collect spillage.
- Call a POISON CENTER / doctor / physician if you feel unwell.
- IF SWALLOWED : Immediately call a POISON CENTER or doctor / physician. Do NOT induce vomiting.

Storage

- Store at temperatures not exceeding 40°C / 104°F. Keep cool. Protect from sunlight. Store away from other materials. Store in well-ventilated place. Keep container tightly closed. Store locked up.

Disposal

- Dispose of contents / container to...in accordance with local/regional/national/international regulations.

Specific Physical and Chemical hazards

Flammable liquid. Vapor / air mixture may explode.

3. Composition / information on ingredients

Mixture / Substance selection :

Ingredient Name	Content (%)	CAS No.
Rust preventive agents	<1	—
Mineral oil	<0.1	—
2, 2, 4 - Trimethylpentane	15 - 25	540-84-1
LPG		
Normal-Propane	15 - 25	74-98-6
Normal-Butane	20 - 30	106-97-8
Iso-Butane		75-28-5

4. First - aid measure**General measure :**

- Get medical attention / advice if you feel unwell.
- IF exposed or concerned : Get medical attention / advice.
- Call a POISON CENTER or doctor / physician if you feel unwell.

IF INHALED :

- Remove person to fresh air and keep comfortable for breathing.
- Call a POISON CENTER or doctor / physician if you feel unwell.

IF ON SKIN (or hair) :

- Take off immediately all contaminated clothing. Rinse skin water/shower.
- Wash with plenty to soap and water.
- If skin irritation occurs : Get medical advice / attention.

IF IN EYES :

Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

If eye irritation persists : Get medical advice / attention.

IF SWALLOWED :

Do NOT induce vomiting.

Immediately call a POISON CENTER or doctor / physician.

Indication of any immediate medical attention and special treatment needed :

Special treatment is required.

5. Fire-fighting measures

Suitable extinguish media

Foam, Dry chemicals, carbon dioxide

Unsuitable extinguish media

Water jet

Specific hazards arising from the substance or mixture

Will form toxic carbon oxides upon combustion.

Advice for fire-fighting measure

Evacuate non-essential personnel to safe area.

Eliminate all ignition sources if safe to do so.

Cool container with water spray.

Apply water from a safe distance to cool and protect surrounding area.

Prevent extinguishing water from entering sewers.

Special protective equipment and precautions for fire-fighters

Wear fire / flame resistant / retardant clothing.

Wear protective gloves / protective clothing / eye protection / face protection.

Firefighters should wear self-contained breathing apparatus with full face piece operated positive pressure mode.

6. Accidental release measure

Personnel precautions, protective equipment and emergency procedures

Evacuate area.

Keep unauthorized personnel away.

Wear an air-supplied respirator for handling a spill at a poor ventilated workplace.

Wear proper protective equipment.

Eliminate all sources of ignition and ventilate the area.

Environmental precaution

Prevent spills from entering sewers, watercourses or low area.

Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al) , then place in a chemical waste container.

Fill the disposal into labelled, closable containers.

Preventive measures for secondary accident

Collect spillage.

Prepare extinguishers before catching fire.

Stop leak if safe to do so.

7. Handling and storage

Preventive measures

- Avoid breathe gas / mist / vapors / spray.
- Take protective measures against fire and explosion.
- Keep away from heat / sparks / open flames / hot surfaces – No smoking.
- Ground / bond container and receiving equipment.
- Use explosion-proof electrical / ventilating / lighting equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Exhaust / ventilator should be available.
- Avoid contact with skin / eyes.

Safety measures

- Obtain special instructions before use.
- Do not handle until safety precautions have been read and understood.
- Use only outdoors or in a well-ventilated area.
- Wear protective gloves / protective clothing / eye protection / face protection.

Any incompatibilities

- Do not mix with strong oxidizers.

Advice on general occupational hygiene

- Wash contaminated parts thoroughly after handles.
- Take off contaminated clothing and wash it before reuse.

Storage

- Store in a well-ventilated place. Keep container tightly closed. Keep cool.
- Store locked up.

8. Exposure controls and personal protection

Control parameters

COMPONENTS	Limit	TLV-TWA
2, 2, 4 - Trimethylpentane	ACGIH	300 ppm

Exposure controls

Appropriate engineering controls

- Exhaust / ventilator should be available.
- Eye wash station should be available.
- Washing facilities should be available.

Individual protection measure

- Respiratory protection** : Respiratory protection.
- Hand protection** : Protective gloves.
- Eye protection** : Safety glasses with side-shields or chemical safety goggle.
- Skin and body protection** : Protective clothing. Impervious clothing and boots in case of repeated or prolonged treatment.

9. Physical and chemical properties

Item	Raw material	Propellant
Physical state	Liquid	Gas
Color	Light yellow	Colorless
Odor	petroleum odor	Odorless
Boiling point (°C)	99	−42
Flash point (°C)	−12	−104

Auto ignition Temperature (°C)	530	450
Flammable Limits (% by volume)	1.0~6.0	2.1~9.5
Vapor Density (air=1)	3.96	1.6
Density	0.698 / 15°C	0.58 MPa / 20°C
Dynamic viscosity	No data available	No data available
Solubility in water	Insoluble	Insoluble

10. Stability and Reactivity

Chemical stability :

Stable under normal storage / handling conditions.

Possibility of hazardous reactions :

May form explosive gaseous mixture with air.

Incompatible materials :

Strong oxidizing agents, halogen, strong acid, strong base, Sulfur of high temperature

Hazardous decomposition products :

Carbon oxides

11. Toxicological information

Acute toxicity	/ Oral	: No useful information available
Acute toxicity	/ Skin	: No useful information available
Acute toxicity	/ Gas	: No information available
Acute toxicity	/ Vapor	: Category 5
Acute toxicity	/ Dust, mist	: No information available
Skin corrosion / irritation		: Category 2
Serious eye damage / eye irritation		: Category 2
Respiratory		: No useful information available
Skin sensitizer		: No useful information available
Germ cell mutagenicity		: No useful information available
Carcinogenicity		: No useful information available
Toxic to reproduction		: No useful information available
Specific target organs / systemic toxicity following single exposure		: Category 3
Specific target organs / systemic toxicity following repeated exposure		: Category 2
Aspiration hazard		: Category 1

12. Ecological information

Hazardous to the aquatic environment	/ Acute	: Category 1
Hazardous to the aquatic environment	/ Chronic	: Category 1
Hazard to the ozone layer		: It is not harmful.

13. Disposal considerations

Avoid release to the environment.

Dispose of contents / container in accordance with local / national regulation.

Dispose to an authorized waste collection point.

14. Transportation information

International regulations	: UN No.	: 1950
	Name	: AEROSOL
	UN CLASS	: 2.1
	Sub Risk	: —
	Packing Group	: —
	Marine pollutant	: Applicable
	EmS Code	: F-D, S-U
	Transport in bulk according to Annex II of MARPOL 73 / 78 and IBC Code	
	Physical property name	: Octane (all isomer)
	Pollution classification	: X
Domestic regulations	: Maritime regulation	: Marine transport : Ship Safety Law
	Aviation regulations	: Air transport : Aviation law
	Land regulation	: Land transport : Fire service law (Follow Section 15)
ERG GUIDE No.		: 126

15. Regulatory information**Japanese Regulations**

- **High Pressure Gas Safety Law :**
Exclusion item (Aerosol liquefied gas)
- **Fire Service Law :**
4th group of 1st Class petroleum, water-insoluble (200L)
- **Industrial Safety and Health Law :**
 - **Hazardous Material :**
Applicable, flammable, flammable gas
 - **Labeling substance :**
Octane, Butane
 - **Notifiable substance :**
Octane, Butane
 - **Ordinance on Prevention of Organic Solvent Poisoning :**
Not applicable
 - **Ordinance on Prevention of Hazards Due to Specified Chemical Substances :**
Not applicable
- **Pollutant Release and Transfer Register Law :**
Not applicable
- **Poisonous and Deleterious Substance Control Law :**
Not applicable
- **The Ozone Layer Protection Law :**
Not applicable
- **Marine pollution prevention law**
Octane
- **Ship Safety Law**
Flammable high-pressure gas, aerosol (volume 1L or less)
- **Act on Port Regulations**
High pressure gas
- **Aviation law**
Aerosol (Does not contain toxic substances, corrosive substances or toxic gases)

16. Other information

This SDS is created in accordance with JIS Z7253: 2019.

Citations : (1) National Institute of Technology and Evaluation of Products ; NITE
GHS classification table
(2) Product Safety Data Sheet issued by Occupational Health Information Center

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