

Safety Data Sheet (SDS)

1. IDENTIFICATION

Product Name: AR Spray
Company Name: SATO SPECIAL OIL CO., LTD.
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Reference No.: 180040SGJ-1

2. HAZARD IDENTIFICATION

GHS Classification GHS Chemical Substance Classification (JIS Z7252-2009)
Physical or Chemical Hazards
Flammable Aerosols: Category 1
Health Hazards
Specific Target Organ System Toxicity (single exposure):
Category 3 (anesthetic action)

Hazards other than above are not categorized or classification not possible.

Label Elements

Pictograms:



Signal Words: DANGER

Hazard and Toxicity Information:

- Extremely flammable and easily ignited aerosol
- May cause drowsiness or dizziness

Written Cautions

Safety policy:

- Only use outside or in well ventilated areas.
- Keep away from ignitions sources such as heat, sparks, open flames and hot things. Prohibit smoking.
- Do not spray near an open flame of other ignition sources.
- Do not inhale dust, smoke, gas, mists, vapors, or spray.
- Do not spray near an open flame of other ignition sources.
- Pressurized container : Do not puncture or burn even after use.

First aid measures:

- Get medical attention if feeling unwell, nauseous etc.
- If inhaled, go to a place with fresh air and rest in a position in which it is easy to breathe.

Storage:

- Lock up for storage.
- Store in well ventilated area
- Block exposure to direct sunlight
- Do not exposure to temperatures higher than 50°C (122° F)

Disposal

- Disposal of contents and container must be entrusted to waste disposal experts licensed by the local/regional/national/international regulations.

3. INGREDIENT AND COMPOSITION INFORMATION

Single or Mixed Substance: Mixed
Chemical or generic name: Lubricating spray
Substances and Amounts: - Refined hydro-carbon oil: 120 – 30%
- LPG: 70 – 80%
Chemical Formula: Not determined
Official Notice Code: Not disclosed
CAS No.: Not disclosed
Industrial Safety and Health Act: Hazardous substance requiring notification of name etc.
(Article 57 section 2 of law. Article 18, chart 2,
section 1 of enforcement law) . Dangerous or
flammable gas (Chart 1, No. 4.5 of enforcement law.)

4. FIRST AID MEASURES

Inhalation: Go to a place with fresh air and rest in a position in which it is easy to breathe. Get medical attention if feeling unwell.
Skin Exposure: Wash thoroughly with soap and water immediately. Get medical attention if skin is irritated.
If gets in eyes: Wash thoroughly with water for 15 minutes. Get medical attention if eyes are irritated.
If swallowed: - Rinse mouth. Do not induce vomiting.
- Get medical attention if necessary.
Possible Acute and Delayed Reactions:
- Eye or respiratory tract irritation. Numbness. Dizziness. Head ache. Nausea. Frostbite. Reddening due to contact
- Nausea if mist is inhaled.
- Skin reddening if skin is exposed.
- Vomiting if stomach membrane is irritated after swallowing.

5. FIRE FIGHTING MEASURES

Extinguishing Materials: Extinguishing foam, powder and carbon dioxide.
Unsuitable Extinguishing Materials: Stream of water may spread fire.
Specified Hazards: - The container may burst by high temperature.
- Stimulation, the causticity or the toxic fume might be generated by a fire.
- The container may explode by heating.
- Liquid and steam with extremely high inflammability.
Extinguishing Methods: - Use carbon dioxide or powder when fire first breaks out.
- If fire spreads, use foam to suffocate fire
- Remove container from fire area if it can be done safely. After fire is extinguished, cool container with plenty of water.
- Stop people from entering the fire area.
- Remove ignition sources if it can be done safely.
- Remove container from fire area if it can be done safely.
- Fight fire from up wind direction and avoid inhaling smoke and vapors.
Fire Fighter Protection: Wear appropriate protective heat-resistance gear and a respirator .

6. ACCIDENTAL RELEASE MEASURES

- Personnel Precautions:
- Wear protective gear. Mark the spill area with rope etc. so other people do not enter it.
 - Stop spread from up wind direction.
 - Leave low-lying areas.
 - Stop people from entering the leakage area.
- Environmental Precautions:
- Prevent released material from draining into rivers etc.
 - Take steps to avoid environmental pollution.
- Clean Up:
- For small amounts, absorb with dry sand, earth, sawdust, rags etc. and store in a sealed container. For large amounts, surround the area with a bank of earth to prevent spreading. Channel spill to a safe collection area. Burn and dispose of spill in a facility specially designed for disposal of chemicals.
- Prevent Secondary Accident:
- Immediately remove all sources of ignition, high temperature devices, and other flammable substances. (Prohibit smoking, sparks and open flames nearby.)
 - Get an appropriate fire extinguish in case of fire.

7. HANDLING AND STORAGE PRECAUTIONS

Handling

- Technical Means:
- Follow instructions for 8. Exposure Controls and Personnel Protection.
 - For quantities greater than specified, use areas, tanks, and manufacturing facilities that satisfy legal standards.
 - Wear protective glasses, gloves and other gear to avoid direct contact.
- Cautions:
- Workplace should be well ventilated.
- Safety Precautions:
- Take care that there are no sources of ignition such as open flames, static electricity, impact sparks etc.
 - Do not handle before reading and understanding all safety information.
 - Prohibit use of hot materials, sparks and open flames nearby.
 - Wash hands thoroughly after handling.
 - Only use outside or in well ventilated areas.
 - Do not release into the environment.
 - Use only in well ventilated areas
 - Do not use or keep near open flames.
 - Do not use large amounts in rooms where there are open flames.
 - Do not put into a fire.

Storage

- Technical means:
- Storage area should have a closet or similar enclosure for dangerous substances. Storage area should be properly illuminated and well ventilated.
- Storage conditions:
- Store in a cool dark place that has a lock.
 - Store away from sources of heat, sparks, open flames and other sources of ignition. Prohibit smoking.
 - Store away from oxidants.

- Containers must not be exposed to direct sunlight or ignition sources.
- Store in well ventilated area.
- Store away from fires and other heat sources.
- Temperature of storage area must be more than 50°C (122°F)
- Do not store in wet areas or high humidity; containers could corrode and burst.

Aerosol products must have labels warning that product uses high pressure gas as noted below.

Caution: Keep away from flames and high temperatures
(red background with white lettering)

This product containers a flammable substance and pressurized gas and is dangerous. Follow all the precautions noted below.

1. Do not use or keep near open flames.
2. Do not use large amounts in rooms where there are open flames.
3. High temperatures could cause the container to burst. Do not leave in areas where direct sunlight, stoves or heaters could raise the temperature above.
4. Do not put into a fire.
5. Empty completely before disposing of container.
High pressure gas: LPG

8. EXPOSURE CONTROLS AND PERSONNEL PROTECTION

- Facilities: - If mist or vapor is produced, the source of these should be sealed or the area should be provided with an exhaust fan. Electrical devices should have explosion prevention design. Facilities for washing eyes and the whole body should be located nearby.
- Management Density: Not determined (Workplace evaluation standard : 2009 Ministry of Labor Notification 194/195)
- Allowable Concentration:
Japan Society for Occupational Health:
Butane 500ppm (1200mg/m³) (2010)
- ACGIH: Aliphatic hydrocarbon gases, Alkanes [C1-C4] (Propane and butane), TWA 1000 ppm (2010)
- Protection Means:
- Proper non-explosive electrical devices, ventilation, and illumination.
- Facilities for safety showers and eye washing in areas where this substance is stored or used.
- Ventilation and exhaust fans to keep the concentration in the air below the exposure limit.
- If mist is produced during high temperature processing, exhaust fans should be used to keep the air pollution below the established limit of concentration.
- Means to prevent the release of static electricity.
- Protective Equipment:
Respirators: Protective respirators must be worn
Gloves: Protective gloves must be worn

- Glasses: Protective glasses must be worn
(Regular safety glasses with side wings, goggles type)
- Skin and Body Protection: Plastic aprons and long sleeve shirts must be worn
- Hygiene Requirements: - No smoking or eating in the workplace
- Wet clothes should be taken off and thoroughly washed
be being worn again.
- Wash hands thoroughly after handling.

9. Physical and Chemical Properties

- Shape: Liquid
- Boiling Point: No data for product
- Melting Point: No data for product
- Flash Point: No data for product
- Explosion Limit: No data for product
- Vapor Pressure: No data for product
- Vapor Density: No data for product
- Density: No data for product
- Solubility: Non-soluble in water
- Decomposition Temperature: No data for product
- Other: No data for product

10. STABILITY AND REACTIVITY

- Stability: Stable under normal usage conditions
- Hazardous Reactivity: Likely to react when contacting a strong oxidizing agent.
- Conditions to Avoid: High temperatures, heating, sparks, open flames, impacts
- Incompatible Substances: Peroxides and strong oxidizing agents
- Other: Flammable

11. TOXICOLOGICAL INFORMATION

- Acute Oral Toxicity: No data, cannot classify
- Acute Dermal Toxicity: No data, cannot classify
- Acute Mist Inhalation Toxicity: No data, cannot classify
- Skin Burn or Irritation: No data, cannot classify
- Eye Irritation of Serious Damage: No data, cannot classify
- Respiratory Tract Sensitivity: No data, cannot classify
- Skin Sensitivity: No data, cannot classify
- Germ Cell Mutagenicity: No data, cannot classify
- Carcinogenicity: No data, cannot classify
- Reproductive Toxicity: No data, cannot classify
- Specific Target Organ System Toxicity (single exposure):
Class 3 due to propane and butane content
- Specific Target Organ System Toxicity (multiple exposures):
No data, cannot classify
- Inhalation Respiratory Hazard: No data, cannot classify

* The above evaluations conform to GHS Chemical Substance Classification (JIS Z7252-2009).

12. ENVIRONMENTAL IMPACT INFORMATION

- Acute Water Hazard No data, cannot classify
- Chronic Water Hazard No data, cannot classify

* The above evaluations conform to GHS Chemical Substance Classification (JIS Z7252-2009).

13. DISPOSAL CONSIDERATIONS

Residual Waste: Disposal must follow all relevant regulations (disposal and fire regulations). It must be entrusted to a company specializing in industrial waste disposal that is licensed by the proper governmental authority. If a local public organization does this, it should be entrusted to it.

Contaminated Containers and Packaging: Containers must be completely empty before disposal or they must be disposed of in conformance with related regulations of the local government.

14. TRANSPORTATION

UN Class: Class 2.1

UN Code No.: - 1950

- Must conform to regulations for destination country or territory.

Domestic Regulations: The following regulations are for domestic transportation. Container and freighting methods must follow the relevant laws.

Overland: Must conform to all relevant regulations for Fire Defense Law, Industrial Safety and Health Act, and Poisonous Material Control Law.

By Sea: Must conform to Ship Safety Act.

By Air: Must conform to Civil Aeronautics Act.

Special Safety Policy:

- Must conform to all cautions for handling and storage.
- Must confirm that containers are not leaking and must be loaded to prevent tipping over, falling, load collapse and other similar types of damage.
- Temperatures during transport must not exceed 50°C (122°F).
- All other relevant regulations must be followed.

15. RELEVANT REGULATIONS

Fire Defense Law: Hazardous material Class 4, No. 3 petroleum product (non-water-soluble liquid), Hazard level class III

Toxic Substance and Poisons Law: Not relevant

Industrial Safety and Health Act, Article 57, Section 2, Clause 1:

- Hazardous material for which name and other information must be noted No. 482, butane
- Flammable gas: Enforcement Act Chart 1

Chemical Substance Management Law (PRTR law): Not relevant

Waste Disposal and Cleaning Law: Industrial waste disposal regulation (spreading and release prohibited)

16. OTHER INFORMATION

References

1. Permissible concentrations notice, Japan Society for Occupational Health (2010)
2. American Conference of Governmental Industrial Hygienists (ACGIH) "TLVs and BEIs 2010" (2010)
3. International Uniform Chemical Information Database (IUCLID) (2000)
4. IARC suppl.7 (1987)
5. IARC Monographs Programme on the Evaluation of Carcinogenic Risk to Humans (1987)
6. EC directors' regulations [Appendix I to 67/548/EEC, list of hazardous materials]
7. American Conference of Governmental Industrial Hygienists: ACGIH documentation (2001)
8. IARC Monographs Programme on the Evaluation of Carcinogenic Risk to Humans (1984)
9. WHO/IPCS: Environmental protection criteria (EHC) (1982)
10. WHO/IPCS: ICSC card (International Chemical Safety Cards) (2001)
11. GHS Chemical Substance Classification (JIS Z7252-2009)
12. Pressurized gas safety regulation notice No. 139

USE OF THIS INFORMATION

The information given above is based on the best knowledge available to us. We cannot guarantee its accuracy or completeness. We will revise this document whenever we receive new or better information for scientific testing etc.

Since any chemical may have unknown hazards, this information must be considered with great care. We urge all users to be responsible for establishing safe conditions of usage.