



MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

- 1.1 Product**
- 1.1.1 Trade name SUPER DEVELOPER
- 1.2 Company**
- 1.2.1 Manufacturer Superon Schweissttechnik India Ltd.
Address 15-16, Old Sewa Nagar Market
Post Office Lodhi Road
New Delhi – 110003
- E-Mail: sales@superonindia.com
Website: www.superonindia.com
- 1.2.2 Advice Phone: +91 011 24647199, 24647252
Fax: +91 011 24623826, 24633847
- 1.2.3 Emergency advice Phone: +91 011 24647199, 24647252

2. HAZARDOUS INGREDIENTS / SARA III INFORMATION OCCUPATIONAL EXPOSURE LIMITS

| Chemical Name | CAS Number | Proportion | Classification |
|------------------------|------------|------------|----------------|
| Methyl Ethyl Ketone | 78-93-3 | 40-70% | R12, R36/38 |
| Hydrocarbon Propellant | 68476-86-8 | 15-40% | R12 |
| Toluene | 108-88-3 | 1-5% | R12, R36/38 |

Ingredients determined not to be hazardous to 100%

3. HAZARDS IDENTIFICATION

- 3.1 R-phrases**
- 12 Extremely flammable.
50/53 Very Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 3.2 Special hazards information for humans and environment**
- In extensive use, formation of flammable / explosive vapour-air mixture is possible.

4. FIRST AID MEASURES

- 4.1 General information**
- Remove contaminated soaked clothing immediately.
- 4.2 In case of inhalation**
- Remove the casualty into fresh air and keep him immobile.
In the event of symptoms refer for medical treatment.
- 4.3 In case of skin contact**
- In case of contact with skin wash off with soap and water.
Consult a doctor if skin irritation persists.
- 4.4 In case of eye contact**
- In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.
- 4.5 In case of ingestion**
- Do not induce vomiting.
Medical treatment.

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5. FIRE-FIGHTING MEASURES

5.1 Suitable Extinguishing Media

Dry powder
Carbon dioxide
sand

5.2 Extinguishing media which must not be used for safety reasons

Water

5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

Danger of burst.
Fire gas of organic material has to be classed invariably as respiratory poison.

5.4 Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply.
Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus.

5.5 Additional Information

Vapors are heavier than air and will spread on the ground.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions

Ensure adequate ventilation.
Use personal protective clothing.
Keep away sources of ignition.

6.2 Environmental Precautions

Do not discharge into the drains or bodies of water.

6.3 Methods for cleaning up

Take up with absorbent material.
After taking up the material dispose according to regulation.

7. HANDLING AND STORAGE

7.1 Advice on safe handling

Care for thoroughly room ventilation, if necessary suck off at workplace.

7.2 Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking
Do not spray into flames or any incandescent material.
Pressurized container.
Do not pierce or burn even after use.
Vapours can form an explosive mixture with air.
Avoid effect of heat.

7.3 Requirements for storage rooms and vessels

Keep in closed original container.
Adhere to administrative regulations relating to storage of compressed gas cylinders / containers.



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7.4 Advice on storage compatibility
Do not store with combustible materials.

7.5 Further information on storage conditions
Protect from direct solar radiation.
Do not store above 120° F (49° C).
Store container at cool and aired place.
Keep in a cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards: Not established
Engineering Controls: Conventional airflow is generally considered to be acceptable. In confined areas, exhaust fans should be utilised in accordance with good working practices.
Hand Protection: Neoprene rubber, Impermeable gloves, Cuffed butyl rubber, Nitrile rubber, or PVC gloves are suitable.
Eye Protection: Splash proof eye goggles.
Skin Protection: Long sleeved clothing.
Flammability: Flammable

Respiratory protection If ventilation insufficient, wear respiratory protection.

General protective measures Avoid contact with eyes and skin
Do not inhale gases/vapours/aerosols.

Hygiene measures At work do not eat, drink, smoke or take drugs.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|-------------|---------------|----------------|
| Form | Colour | Odor |
| Aerosol | Off-white | Characteristic |

9.1 Important health, safety and environmental information

| | Value | Temperature | at | Method | Remark |
|---------------------------------|------------------------|-------------|----|--------|--------|
| Specific gravity | 0.75±0.5 | | | | |
| Viscosity | Not applicable | | | | |
| Percent solids by weight | 9-12% | | | | |
| Volatile Organic Compound level | >88% | | | | |
| Interior/ Exterior durability | Excellent | | | | |
| Flash Point | <0°C (with propellant) | | | | |
| Solubility in water | Insoluble | | | | |

9.2 Explosive properties

The product is considered non-explosive ; nevertheless explosive vapour/air mixtures can be generated.

10. STABILITY AND REACTIVITY

10.1 Conditions to avoid

Open flames, sparks,
Electrical arcs.

10.2 Materials to avoid

Strong oxidizing agent, strong acids or bases.



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10.3 Hazardous decomposition products

Carbon monoxide and Carbon dioxide

10.4 Thermal decomposition

Remark No decomposition if suitable use.

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity (LD50, rat): No data.

Acute Dermal Toxicity (LD50, rabbit): No data.

Acute Inhalation Toxicity (LC50, rat): No data.

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data.

Environmental Fate: No data.

12.1 General regulation

Do not discharge product unmonitored into the environment.

Product is not allowed to discharge into aquatic environment.

13. DISPOSAL CONSIDERATIONS

13.1 Recommendations for the product

Remove in accordance with local official regulations.

There are no harmonized regulations on the disposal of chemicals in the member states of the EU. In Germany, the Recycling and Waste Management Act 8 KrW-/AbfG) stipulates recycling as a requirement.

13.2 Recommendations for packaging

Dispose of according to the local waste regulations

13.3 General information

For proper waste disposal a complete emptying of the tin is necessary.

14. TRANSPORT INFORMATION

14.1 Land and inland navigation transport ADR/RID

UN 1950 AEROSOLS, Class - 2.1

transport in "limited quantities" according to 3.4 ADR LQ2 is possible

14.2 Marine transport IMDG

UN 1950 AEROSOLS, Class - 2

Transport as limited quantities according to 3.4 IMDG Code is possible.

14.3 Air transport ICAO/IATA-DGR

UN 1950 Aerosols, flammable, Class - 2.1

15. REGULATORY INFORMATION

15.1 Remarks for classification

The product is classified and labelled in accordance with EC directives/German regulations on dangerous substances.

15.2 Classification

F+ Extremely flammable
N Dangerous for the environment



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15.2.1 R-phrases

12 Extremely flammable.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

15.3 Special labeling for certain preparations

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

Do not spray into flames or onto glowing objects.

Without sufficient ventilation the formation of explosive vapour/air mixtures cannot be excluded. Keep away from ignition sources - Do not smoke. Keep out of children's reach.

16. OTHER INFORMATION

16.1 Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

16.2 Further information

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

16.3 Wording of the R-phrases specified in chapter 2 (not the classification of the formulation!)

R 10 Flammable.

R 11 Highly flammable.

R 12 Extremely flammable.

R 15 Contact with water liberates extremely flammable gases.

R 20/21 Harmful by inhalation and in contact with skin.

R 22 Harmful if swallowed.

R 36 Irritating to eyes.

R 38 Irritating to skin.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 66 Repeated exposure may cause skin dryness or cracking.

R 67 Vapours may cause drowsiness and dizziness.
