

S T A R O N MATERIALS SAFETY DATA SHEET
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Revised 24.12.2009

1. Identification of the substance/preparation and of the company/undertaking

Product name : STARON JOINT ADHESIVE COMPONENT A

Company : CHEIL INDUSTRIES INC.

Emergency Telephone NO. : 82-61-689-1526

Address : Yeusu Plant, Chemicals Division, CHEIL INDUSTRIES INC.
62, Pyong Yo-Dong, Yeusu-Shi, Cheon Nam, Korea

2. Composition/information on ingredients

Acrylic Polymer	20~40%	CAS Number : 9011-14-7
Methyl Methacrylate Monomer	30~60%	CAS Number : 80-62-6
Alumina Trihydrate	10~40%	CAS Number : 21645-51-2

3. Hazards identification

Main Hazards

Harmful if swallowed.

Risks of serious damage to eyes.

Health Effects-Eyes

Liquid or mist will cause severe conjunctival irritation and corneal damage.

Health Effects-Skin

Material may cause irritation. Repeated or prolonged contact may produce defatting of the skin leading to irritation and dermatitis.

Health Effects-Ingestion

Swallowing may have the following effects : irritation of mouth, throat and digestive tract. nausea. difficulty with breathing. lung damage.

Health Effects-Inhalation

Low volatility makes acute effects unlikely at ambient temperatures.

4. First Aid Measures

Inhalation

Remove from exposure. Keep warm and at rest. If there is difficulty in breathing, give oxygen. If breathing stops or shows signs of failing, give artificial respiration. Obtain medical attention.

Eye contact

Immediately flood the eye with plenty of water for at least 15 minutes holding the eye open. Obtain medical attention urgently.

Skin contact

Wash skin thoroughly with soap and water. Contaminated clothing should be washed or dry-cleaned before reuse.

Ingestion

Wash out mouth with water(Never administer anything by mouth if a casualty is losing consciousness, is unconscious or is convulsing). Do not induce vomiting.

Keep warm and at rest. If there is difficulty in breathing, give oxygen. If breathing stops or shows signs of failing, give artificial respiration. Do not use mouth to mouth ventilation. Obtain medical attention urgently.

5. Fire Fighting Measures

Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Keep containers and surroundings cool with water spray.

Unsuitable Media

Do not use water jet.

Special Hazards

This product may give rise to hazardous fumes in a fire.

Protective Equipment

Water self contained breathing apparatus.

6. Accidental Release Measures

Personal Precautions

Wear appropriate protective clothing. Wear respiratory protection.

Environmental Precautions

Try to prevent the material from entering drains or water courses. Advise authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

Spillages

Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery of disposal.

7. Handling and Storage**Handling**

Keep container tightly closed when not in use. Use in well ventilated area. Avoid contact with eyes, skin and clothing. Emergency shower and eye wash facilities should be readily available.

Storage

Storage area should be : cool, dry, well ventilated.

8. Exposure Controls/Personal Protection**Occupational Exposure**

Material may cause irritation to mucous membranes, skin burns, eye corrosion and permanent injury. (TVL : 100 ppm)

Engineering Control

Engineering methods to prevent or personnel enclosure are preferred.

Measures

Methods include process or personnel enclosure, mechanical ventilation(dilution and local exhaust), and control of process conditions. If engineering controls and work practices are not effective in preventing or controlling exposure, then suitable personal protective equipment, which is known to perform satisfactorily, should be used.

Respiratory Protection

Respiratory protection if there is risk of breathing mists or vapors from heated material.

Hand Protection

Rubber or polyethylene gloves.

Eye Protection

Chemical goggles must be worn during all handling operations.

Body Protection

If there is danger of splashing, wear impermeable suit.

Ventilation

During application, adequate ventilation must be provided.

9. Physical and Chemical Properties

Physical State : Viscous liquid

Color : Various

Odor : Acrylic

Boiling Point : 101°C

Flash Point(TOC) : 10°C

Ignition Temperature : 430°C

Explosion Limits : Lower 2.1%, Upper 12.5%

Solubility in water : Slightly soluble

Vapor Density : 3.42

Specific gravity : 1.2

Viscosity(CPS) : 20,000 at 23°C.(typical)

10. Stability and Reactivity

Stability

Stable under normal condition

Condition to avoid

Heat, spark, flames and other sources of ignition.

Materials to avoid

Oxidizing agents. Air

Hazardous Decomposition

Combustion will generate : oxides of carbon. smoke. methyl methacrylate monomer.

Hazardous Polymerization

Polymer may be formed at high temperature or addition of oxidizing materials or direct sunlight.

11. Toxicological Information

Acute Toxicity

Harmful by ingestion.

Carcinogenicity

NTP : None assigned

JARC : None assigned

OSHA : None assigned

Contact Hazard

Moderate

12. Ecological Information

Mobility

The product will not dissolve in water.

Persistence/Degradability

The product is expected to be partially or slowly biodegradable.

Bio-accumulation

The product is not expected to bioaccumulate.

Ecotoxicity

No data

13. Disposal Considerations

Product Disposal

Dispose of in accordance with all applicable local and national regulations. Incineration is the recommended method of disposal.

Container Disposal

Empty containers may contain hazardous residues.

Labels should not be removed from containers until they have been cleaned. Contaminated containers must not be treated as household waste. Containers should be disposed of by landfill or incineration as appropriate.

14. Transport Information

This information relates to the kit as a whole (Component A, Component B)

ADR/RID-Class

UN-no 1133 Class 3 Item 5(C)

Proper shipping name : Adhesives

Term-Card R-30G80 ADR/RID Labels : 3

ICAO-Class

UN-no 1133 Class 3 Subrisks

Proper shipping name : Adhesives

Packing Group III ICAO Labels : Flammable liquid

15. Regulatory Information

Labelling Information

Warning : Flammable , Irritant

Contents : Methyl Methacrylate, Alumina Trihydrate

Common name : STARON ADHESIVE COMPONENT A

Caution

Always wear safety goggles and protective glooves.

Keep away from children.

STARON ADHESIVE should be stored in a cool and dark area.

Avoid breathing vapor and use only with adequate ventilation.

Keep away from heat, spark, open flame and other combustible materials.

Avoid contact with eyes, skin and clothing.

Wash thoroughly after handling.

16. Other Information

Additional Information

Do not use in medical applications involving permanent implantation in the human body.

We hereby certify that the above statements are true and correct in every respect. If the statements are not true, all responsibility will belong to **CHEIL**.

Signature/Issued Date :

S T A R O N
CHEIL INDUSTRIES INC.