

S T A R O N

MATERIALS SAFETY DATA SHEET

Revised 20.01.2009

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

Product name : STARON SHEET

Company : CHEIL INDUSTRIES INC.

Emergency Telephone NO. : 82-61-689-1531

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

2. Composition/information on ingredients

Ingredient : ACRYLIC POLYMER

Ingredient Sequence Number : 01

Percent : 40 ~ 45

CAS Number : 9011 - 14 - 7

Ingredient : Hydrated Alumina, Aluminum Hydroxide, Aluminum Trihydroxide

Ingredient Sequence Number : 02

Percent : 55 ~ 60

NIOSH(RTECS) Number : BD094000

CAS Number : 21645 - 51 - 2

3. Hazards identification

"STARON SHEET" is not hazardous as shipped. However, operations such sawing, routing, drilling and sanding can generate dust. High concentrations of dust can irritate eyes, nose and respiratory passages and cause coughing and sneezing. Since there are no exposure limits established for dust from "STARON SHEET".(See details in the Exposure Controls/Personal Protection Section of this MSDS)

"STARON SHEET" does not offgas at room temperature. At higher temperature, small amounts of methyl methacrylate can be released, the amounts of which are dependent upon temperature, time and other variables.

methyl methacrylate vapors can irritate eyes, skin, nose and throat and can cause allergic skin rashes. Overexposure to vapors of methyl methacrylate can cause headache, nausea, weakness and lung irritation with cough, discomfort and shortness of breath.

Individuals with preexisting diseases of the lungs or skin may have increased susceptibility to the effects of overexposure to methyl methacrylate.

4. First Aid Measures

Inhalation : Move to fresh air.

Eye contact : Not applicable

Skin contact : Not applicable

Ingestion : Not applicable

5. Fire Fighting Measures

After spillage/leakage/gas leakage :

Keep away from sources of ignition. Ensure adequate ventilation. Use personal protective equipment. Soak up with inert absorbent material. Clean with detergents. Avoid solvents.

Extinguishing media :

Dry powder , foam, carbon dioxide, water spray

6. Accidental Release Measures

Review **fire fighting measures** and **handling** sections before proceeding with clean-up. Use appropriate personal protective equipment during clean-up.

7. Handling and Storage

Do not breathe dust.

8. Exposure Controls/Personal Protection

Technical protective measures :

Provide for appropriate exhaust ventilation and dust collection at machinery.

Personal protective equipment :

Respiration (During machining operation) : In case of insufficient ventilation wear suitable respiratory equipment.

Eyes (During machining operation) : Tightly fitting safety goggles or face-shield.

Hand (During machining operation) : Leather gloves or thick fabric gloves.

Other (During machining operation) : Ear protection, safety shoes

people with unusually high sensitivity may experience eye, nose or throat irritation from STARON dust and fumes and should take precautions.

9. Physical and Chemical Properties

Form : Solid Sheet

Color : Various

Order : NONE

Boiling Point : Not Applicable

Melting Point : Not Applicable

Specific Gravity (Water = 1) : 1.6 ~ 1.8
Vapor Pressure (mmHg) : Not Applicable
Vapor Density (Air = 1) : Not Applicable
Solubility in Water : Insoluble
pH : Not Applicable
Flash Point : Not Applicable
Ignition Temperature : Not Applicable
Explosion Limits : Lower = Not Applicable
Upper = Not Applicable

10. Stability and Reactivity

Thermal decomposition product :

Frictional heat generated from sawing routing STARON SHEET can each or exceed temperature of 300 °C. This is high enough to release small of methyl methacrylate vapor.

Hazardous Decomposition Product :

Carbon monoxide, methyl methacrylate monomer, smoke

Hazardous Reaction : None

Further information :

spray mist may be flammable at temperature below the flash point

11. Toxicological Information

Methyl methacrylate

TLV-TWA = 100 ppm = 410 mg/m³ ; ACGIH (1991-2)

LD50/oral/rat = 7872 mg/kg ; RTECS, 47796

Methyl methacrylate can be present, at the cutting tool face, at a concentration exceeding the TLV of 100 ppm. however, it dissipates with good ventilation to very low levels.

12. Ecological Information

No information available

13. Disposal Considerations

Can be lanefilled or incinerated, when in compliance with local regulations.

14. Transport Information

Not classified as dangerous in the meaning of transport regulations.

15. Regulatory Information

U.S. Federal Regulations

TSCA Inventory Status : In compliance with TSCA Inventory requirements for commercial purposes.

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 :

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CHEIL INDUSTRIES INC.