



**MATERIAL SAFETY DATA SHEET**  
**ALSAN RS 230 FLASH**

| HMIS  | PROTECTIVE CLOTHING | TRANSPORT OF DANGEROUS GOODS |                     |                               |  |  |
|---|---------------------|------------------------------|---------------------|-------------------------------|--|--|
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr style="background-color: #0056b3; color: white;"><td style="text-align: center;"><b>2</b> HEALTH</td></tr> <tr style="background-color: #ff0000; color: white;"><td style="text-align: center;"><b>3</b> FLAMMABILITY</td></tr> <tr style="background-color: #ff9900; color: white;"><td style="text-align: center;"><b>1</b> REACTIVITY</td></tr> <tr style="background-color: #cccccc;"><td style="text-align: center;"><b>G</b> PROTECTIVE EQUIPMENT</td></tr> </table> | <b>2</b> HEALTH     | <b>3</b> FLAMMABILITY        | <b>1</b> REACTIVITY | <b>G</b> PROTECTIVE EQUIPMENT |  | <div style="text-align: center;"> </div> <p style="text-align: right;"><b>PAINT</b><br/> <b>CLASS 3</b><br/> <b>UN 1263</b><br/> <b>P.G.: II</b></p> |
| <b>2</b> HEALTH   |                     |                              |                     |                               |  |  |
| <b>3</b> FLAMMABILITY   |                     |                              |                     |                               |  |  |
| <b>1</b> REACTIVITY   |                     |                              |                     |                               |  |  |
| <b>G</b> PROTECTIVE EQUIPMENT   |                     |                              |                     |                               |  |  |

**SECTION II. CHEMICAL PRODUCT AND COMPANY INFORMATION**

|  |  |
|--|--|
| <b>Product name:</b><br><b>Product number:</b><br><b>Use:</b><br><br><b>Manufacturer:</b><br><br><br><b>Distributor:</b><br><br><br><b>In case of emergency:</b> | Alsan RS 230 Field<br>L-RS022S and L-RS022W<br>PMMA liquid flashing membrane<br><br>Soprema S.A.<br>14, rue de Saint Nazaire - BP 121<br>F-67025 Strasbourg CEDEX 1<br>France<br><br>Soprema, Inc.<br>310 Quadral Drive<br>Wadsworth, Ohio 44281<br>UNITED STATES<br><br>SOPREMA (8:00am to 5:00pm - Eastern time): (800) 356-3521<br>CHEMTREC (USA) (24h.): (800) 424-9300<br>CANUTEC (Canada): (613) 996-6666<br>International: (703) 527-3887 |
|--|--|

**EMERGENCY OVERVIEW!!!**  
**FLAMMABLE - HARMFUL IF INHALED, SWALLOWED OR ABSORBED THROUGH SKIN -**  
**CAUSES SKIN, EYE AND RESPIRATORY IRRITATION - MAY CAUSE SKIN AND**  
**RESPIRATORY SENSITIZATION**

**SECTION II. COMPOSITION AND INFORMATION ON DANGEROUS INGREDIENTS**

| Component                          | CAS#         | % by weight | ACGIH TLV  | OSHA PEL   |
|------------------------------------|--------------|-------------|--|--|
| Methyl methacrylate                | 80-62-6      | > 10 < 25   | 205 mg/m <sup>3</sup> 50 ppm                         | 100 ppm  |
| 2-Ethylhexyl acrylate              | 103-11-7     | > 10 < 25   | 82 mg/m <sup>3</sup> 10 ppm                          | n/a  |
| Other acrylates                    | Confidential | > 10 < 25   | n/a  | 100 ppm  |
| 1,1'-(p-Tolylimino)- dipropan-2-ol | 38668-48-3   | >0.5 < 1.0  | n/a  | n/a  |
| Quartz                             | 14808-60-2   | >0.5 < 1.0  | 0.5 mg/m <sup>3</sup><br>(as respirable quartz dust) | $\frac{10 \text{ mg/m}^3}{\% \text{ SiO}_2 + 2}$ |
| Silicon dioxide, amorphous         | 7631-86-9    | < 2         | 10 mg/m <sup>3</sup><br>(total dust)                 | $\frac{8 \text{ mg/m}^3}{\% \text{ SiO}_2}$      |

TSCA: all ingredients are listed

**SECTION III. TOXICOLOGICAL INFORMATION**

**HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE:** This product is toxic when inhaled or ingested and can cause skin, eye and respiratory irritation as well as skin and respiratory sensitization.

This product contains:

**Methyl methacrylate and 2-Ethylhexyl acrylate**, which may cause skin eye and respiratory irritation. High concentrations can cause symptoms of central nervous system depression, such as headache, nausea, dizziness, drowsiness, and confusion. Both acrylates can cause dermal and respiratory sensitization. Once a person is sensitized contact with even a small amount may cause outbreaks of dermatitis with symptoms such as skin redness, itching, rash and swelling. This can spread from the hands or arms to other parts of the body. Persons with respiratory sensitization can experience symptoms of bronchial asthma such as wheezing, difficult breathing, sneezing and runny or blocked nose at low airborne concentrations that have no effect on un-sensitized people.

**Other acrylates**, which may cause skin eye and respiratory irritation and sensitization.

**1,1'-(p-Tolylimino)-dipropan-2-ol**, which is toxic when ingested or inhaled (no target organ provided - see Section 11. Toxicological Information).

**Silicon dioxide, amorphous**, which, because of its particulate properties, may cause mechanical irritation to the eye and respiratory passages and has ACGIH and OSHA exposure limits. However, this product is sold as a liquid preparation and, when used as intended, does not generate dust. Thus the product as such does not pose a respiration hazard attributable to these components.

**Crystalline silica as Quartz**, which may cause mechanical irritation of the eyes. High concentrations of dust may cause coughing and mild, temporary irritation. Quartz dust can accumulate in the lungs. Prolonged or repeated exposure to fine airborne crystalline silica dust may cause severe scarring of the lungs, a disease called silicosis. However, this product is sold as a liquid preparation and, when used as intended, does not generate dust. Thus the product as such does not pose a respiration hazard attributable to these components.

**CARCINOGENICITY:**

NTP.....: Yes  
 IARC.....: Yes  
 OSHA.....: No

**SECTION IV. FIRST AID MEASURES**

|            |  |
|------------|--|
| SKIN       | Remove contaminated clothing and shoes. Wash with soap or mild detergent and large amounts of water. Do not use solvents or thinners. Get medical attention if irritation occurs. Wash clothing before re-use. |
| EYES       | Hold eyes open and flush for at least 15 minutes with large amounts of water. Seek medical attention.  |
| INHALATION | Remove to fresh air immediately. If breathing has stopped give artificial respiration. If breathing is difficult administer oxygen. Consult physician if irritation of respiratory passage occurs.             |
| INGESTION  | Do not induce vomiting. Give two glasses of water to dilute stomach contents. Never give anything by mouth to an unconscious person. Consult physician immediately.  |

**SECTION V. FIRE-FIGHTING MEASURES**

|   |   |
|---|---|
| <b>Flash point</b>                      | 50 °F (10 °C)   |
| <b>Extinguishing media</b>              | Foam, carbon dioxide, or high pressure water spray. Use water spray only to cool containers in fire area. |
| <b>Special fire fighting procedures</b> | Use self-contained breathing apparatus and full protective clothing.                                      |

**SECTION VI. ACCIDENTAL RELEASE MEASURES****RELEASE OR SPILL:**

Wearing appropriate personal protective equipment, contain spills onto inert absorbent and place in suitable containers.

**SECTION VII. HANDLING AND STORAGE****HANDLING:**

Do not smoke. Keep away from open fire, flame or any ignition source. Vapors may form explosive mixtures with air. Avoid skin and eye contact. Avoid breathing fumes. Do not eat, drink or smoke in application area. When working with dry material, avoid generating dust.

**STORAGE:**

Store closed containers in cool, dry area away from heat, direct sunlight, oxidizing agents, and strong acids and alkalis. Keep away from open fire, flame or any ignition source. Keep in well ventilated areas.

**SECTION VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION**

|                             |   |
|-----------------------------|---|
| <b>HANDS</b>                | Clothing suitable to prevent skin contact. Use butyl rubber gloves and apply barrier creams. Do not use PE or PVC gloves as these materials absorb acrylates. Check suitability recommendations by protective equipment manufacturers, especially towards chemical breakthrough resistance. |
| <b>RESPIRATORY</b>          | If airborne concentration poses a health hazard, becomes irritating or exceeds recommended limits, use a NIOSH approved respirator in accordance with OSHA Respirator Protection requirements under 29 CFR 1910.134.  |
| <b>EYES</b>                 | Safety goggles with side shields.   |
| <b>ENGINEERING CONTROLS</b> | Use local exhaust ventilation or respiratory protection to maintain employee exposure below TLV.  |

**SECTION IX. PHYSICAL AND CHEMICAL PROPERTIES**

|                            |                                      |
|----------------------------|--------------------------------------|
| <b>PHYSICAL FORM</b>       | Liquid                               |
| <b>COLOR</b>               | Grey                                 |
| <b>ODOR</b>                | Methyl methacrylate                  |
| <b>IGNITION POINT</b>      | 536 °F (280 °C)                      |
| <b>FLASH POINT</b>         | > 50 °F (10 °C)                      |
| <b>BOILING POINT</b>       | 212 °F (100 °C)                      |
| <b>VAPOR PRESSURE</b>      | > 50 mbar                            |
| <b>VISCOSITY</b>           | 45 dPas @ 68°F (20 °C)               |
| <b>SOLUBILITY IN WATER</b> | Insoluble                            |
| <b>DENSITY</b>             | 1.2 g/cm <sup>3</sup> @ 68°F (20 °C) |

## SECTION X. STABILITY AND REACTIVITY

### STABILITY:

Stable

### INCOMPATIBILITY:

Avoid strong acids, bases, and oxidizing agents to avoid exothermic reactions. Avoid initiators that produce free radicals, and avoid peroxides and metal-ions.

### HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide, carbon dioxide, oxides of nitrogen, hydrocarbon by-products, and black smoke.

### HAZARDOUS POLYMERIZATION:

Avoid high temperatures. Product may polymerize at > 140 °F (60 °C). Polymerization is exothermic and may cause container damage and/or fire.

## SECTION XI. TOXICOLOGICAL INFORMATION

### Route of Entry

skin contact       skin accumulation       eyes       ingestion       inhalation

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### CARCINOGENICITY:

NTP.....: Yes

IARC.....: Yes

OSHA.....: No

## SECTION XII. ECOLOGICAL INFORMATION

### Environmental effects:

Avoid contamination of ground water or waterways.

## SECTION XIII. DISPOSAL CONSIDERATIONS

### Waste disposal:

Incinerate or dispose of in accordance with Federal, State or Local regulations.

**SECTION XIV. TRANSPORTATION INFORMATION**

**DOT SHIPPING NAME:** Paint  
**HAZARD CLASS:** 3  
**PACKAGING GROUP:** II  
**NA/UN#:** UN 1263  
**LABEL:** Flammable Liquid

**SECTION XV. REGULATORY INFORMATION**

All components of this product are on the TSCA Inventory. This product contains the toxic chemicals listed below, which are subject to the supplier notification requirements of Section 313 of the Superfund Amendments and Reauthorization Act (EPCRA/ "SARA") and the requirements of 40 CFR Part 372:

| Product             | CAS #   | Maximum % |
|---------------------|---------|-----------|
| Methyl methacrylate | 80-62-6 | 40        |

**SECTION XVI. OTHER INFORMATION****Glossary:**

ACGIH: American Conference of Governmental Industrial Hygienists  
ANSI: American National Standards Institute  
ASTM: American Society for Testing and Materials  
CAS: Chemical Abstract Services  
CFR: Code of Federal Regulations (United States)  
CSA: Canadian Standardisation Association  
DOT: Department of Transportation (United States)  
DSL: Domestic Substances List (Canada)  
EPA: Environmental Protection Agency (United States)  
HMIS: Hazardous Material Information System  
IARC: International Agency for Research on Cancer  
LC50: (Lethal concentration<sub>50</sub>) Concentration of a substance in air that causes death of 50% mortality of a defined animal population  
LD50: (Lethal dose<sub>50</sub>) Single dose of a substance that, when administered by a defined route in an animal assay, is expected to cause the death of 50% of a defined animal population.  
NFPA: National Fire Protection Association (United States)  
NIOSH: National Institute for Occupational Safety and Health  
NTP: National Toxicology Program  
OSHA: Occupational Safety & Health Administration (United States)  
PEL: Permissible Exposure Limit  
RCRA: Resource Conservation and Recovery Act (United States)  
RTECS: Registry of Toxic Effects of Chemical Substances  
TDG: Transportation of Dangerous Goods  
TLV: Threshold Limit Value  
TWA: Time-weighted average  
TSCA: Toxic Substances Control Act (United States)  
WHMIS: Workplace Hazardous Materials Information System (Canada)

**Reference:**

Supplier MSDS

This MSDS has been prepared by: SOPREMA, INC.  
For information: 800-543-3085

The Material Safety Data Sheets of SOPREMA are available on Internet at the following site: [HTTP://WWW.SOPREMA.US](http://WWW.SOPREMA.US)

**SECTION XVI. OTHER INFORMATION**

**Justification of the update:**

New MSDS.

This MSDS contains all the information required by ANSI Z-400.1-1998 standard (United States), by regulation 29 CFR Part 1910.1200 of the Hazard Communication Standard of OSHA, and is in accordance with standard DORS/88-66 OF WHMIS Canada.

**To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier or any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.**