



MATERIAL SAFETY DATA SHEET

ALSAN RS 230 FIELD

HMIS	PROTECTIVE CLOTHING	TRANSPORT OF DANGEROUS GOODS
<div style="border: 1px solid black; padding: 5px;"> <div style="background-color: #0056b3; color: white; padding: 2px;">2 HEALTH</div> <div style="background-color: #ff0000; color: white; padding: 2px;">3 FLAMMABILITY</div> <div style="background-color: #ff8c00; color: white; padding: 2px;">1 REACTIVITY</div> <div style="background-color: #cccccc; color: black; padding: 2px;">G PROTECTIVE EQUIPMENT</div> </div>		
		PAINT CLASS 3 UN 1263 P.G.: II

SECTION II. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product name: Product number: Use: Manufacturer: Distributor: In case of emergency:	Alsan RS 230 Field L-RS020S and L-RS020W PMMA liquid field membrane Soprema S.A. 14, rue de Saint Nazaire - BP 121 F-67025 Strasbourg CEDEX 1 France Soprema, Inc. 310 Quadral Drive Wadsworth, Ohio 44281 UNITED STATES SOPREMA (8:00am to 5:00pm - Eastern time): (800) 356-3521 CHEMTREC (USA) (24h.): (800) 424-9300 CANUTEC (Canada): (613) 996-6666 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	> 25 < 50	205 mg/m ³ 50 ppm	100 ppm
2-Ethylhexyl acrylate	103-11-7	> 10 < 25	82 mg/m ³ 10 ppm	n/a
Other acrylates	Confidential	> 5 < 10	n/a	100 ppm
1,1'-(p-Tolylimino)- dipropan-2-ol	38668-48-3	< 2.5	n/a	n/a
Reaction product of Bisphenol A and Epichlorohydrin	25068-38-6	> 25 < 50	n/a	n/a
Quartz	14808-60-2	>0.5 < 1.0	0.5 mg/m ³ (as respirable quartz dust)	$\frac{10 \text{ mg/m}^3}{\% \text{ SiO}_2 + 2}$
Silicon dioxide, amorphous	7631-86-9	< 2	10 mg/m ³ (total dust)	$\frac{8 \text{ mg/m}^3}{\% \text{ SiO}_2}$
TSCA: all ingredients are listed				

SECTION III. POTENTIAL HEALTH EFFECTS

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).

Reaction product of Bisphenol A and Epichlorohydrin, which may cause skin and eye irritation and possible skin and respiratory sensitization.

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 (Quartz)
 IARC.....: Yes (Quartz)
 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

Flash point	50 °F (10 °C)
Extinguishing media	Foam, carbon dioxide, or high pressure water spray. Use water spray only to cool containers in fire area.
Special fire fighting procedures	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

HANDS	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.
RESPIRATORY	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.
EYES	Safety goggles with side shields.
ENGINEERING CONTROLS	Use local exhaust ventilation or respiratory protection to maintain employee exposure below TLV.

SECTION IX. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM	Liquid
COLOR	Grey
ODOR	Methyl methacrylate
IGNITION POINT	536 °F (280 °C)
FLASH POINT	> 50 °F (10 °C)
BOILING POINT	212 °F (100 °C)
VAPOR PRESSURE	> 50 mbar
VISCOSITY	25-30 dPas @ 68°F (20 °C)
SOLUBILITY IN WATER	Insoluble
DENSITY	1.2 g/cm ³ @ 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

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).

Reaction product of Bisphenol A and Epichlorohydrin, which may cause skin and eye irritation and possible skin and respiratory sensitization.

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.

SECTION XI. TOXICOLOGICAL INFORMATION

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 (Quartz)

IARC.....: Yes (Quartz)

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	25

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 concentration₅₀) Concentration of a substance in air that causes death of 50% mortality of a defined animal population
LD50: (Lethal dose₅₀) 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)

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.