MATERIAL SAFETY DATA SHEET

ALSAN RS METAL PRIMER

HMIS	PROTECTIVE CLOTHING	TRANSPORT OF DANGEROUS GOODS
1 HEALTH 3 FLAMMABILITY 1 REACTIVITY G PROTECTIVE EQUIPMENT		 **PAINT** **CLASS 3** **UN 1263** **P.G.: II**

SECTION II. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product name:	Alsan RS Metal Primer
Use:	PMMA Primer
Manufacturer:	Soprema S.A. 14, rue de Saint Nazaire - BP 121 F-67025 Strasbourg CEDEX 1 France
Distributor:	Soprema, Inc. 310 Quadral Drive Wadsworth, Ohio 44281 UNITED STATES
In case of emergency:	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!!!

Irritating to eyes, respiratory system and skin.

SECTION II. COMPOSITION AND INFORMATION ON DANGEROUS INGREDIENTS		
Component	**CAS#**	**% by weight**
2-methoxy-1-methylethyl acetate	108-65-6	10 - 25%
ethyl acetate	141-78-6	5 - 15%
methacrylic acid	79-41-4	0.5 - 2.0%
TSCA: all ingredients are listed		

SECTION III. POTENTIAL HEALTH EFFECTS
Irritating to eyes, respiratory system and skin.

SECTION IV. FIRST AID MEASURES	
GENERAL INFORMATION	Immediately remove any clothing soiled by the product.
EYES	Rinse opened eye for several minutes under running water. Then consult a doctor.
INHALATION	Take affected persons into fresh air and keep quiet. Seek medical treatment in case of complaints. In case of unconsciousness place patient stably in side position for transportation.
SKIN	Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.
INGESTION	Do not induce vomiting; immediately call for medical help.

SECTION V. FIRE-FIGHTING MEASURES	
Extinguishing media	CO_2, extinguishing powder or water spray. Fight larger fire with alcohol resistant foam.
For safety reasons unsuitable extinguishing agents	Water with full jet
Special hazards caused by the material, its products of combustion or resulting gases	Can form explosive gas-air mixtures.
Protective equipment:	Wear self-contained respiratory protective device.
Additional information	Cool endangered receptacles with water spray.

SECTION VI. ACCIDENTAL RELEASE MEASURES
· **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away. Keep away from ignition sources Ensure adequate ventilation Use respiratory protective device against the effects of fumes/dust/aerosol. · **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water. · **Measures for cleaning/collecting:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents Dispose contaminated material as waste according to item 13.

SECTION VII. HANDLING AND STORAGE

HANDLING:
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
· **Information about protection against explosions and fires:**
Highly volatile, flammable constituents are released during processing.
Fumes can combine with air to form an explosive mixture.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

STORAGE:
Requirements to be met by storerooms and receptacles:
Store in a cool location.
Store only in the original receptacle.
· **Information about storage in one common storage facility:** Store away from oxidizing agents.
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

SECTION VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

· **Additional information about design of technical systems**: No further data; see item 7.

· Components with limit values that require monitoring at the workplace:

108-65-6 2-methoxy-1-methylethyl acetate	
WEEL	50ppm
141-78-6 ethyl acetate	
PEL	1400 mg/m³, 400 ppm
REL	1400 mg/m³, 400 ppm
TLV	1440 mg/m³, 400 ppm
79-41-4 methacrylic acid	
REL	70 mg/m³, 20 ppm Skin
TLV	70 mg/m³, 20 ppm
GENERAL PROTECTIVE EQUIPMENT	**General protective and hygienic measures:** The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
HAND PROTECTION	The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation · **Material of gloves** The selection of the suitable gloves does not only depend on the material, but also on further marks of qualityand varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. · **Penetration time of glove material** The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. · **For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:** Butyl rubber, BR

SECTION VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION	
RESPIRATORY	In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
EYE PROTECTION	Tightly sealed goggles
BODY PROTECTION	Protective work clothing

SECTION IX. PHYSICAL AND CHEMICAL PROPERTIES			
PHYSICAL FORM	Liquid	**COLOR**	Colorless
ODOR	Fruit-like	**AUTO IGNITING**	Product is not self-igniting
IGNITION POINT	333 °C (631 °F)	**FLASH POINT**	-4 °F (25 °F)
BOILING POINT	77 °C (171 °F)	**SOLUBILITY IN WATER**	Not miscible or difficult to mix
VAPOR PRESSURE @ 68°F (20 °C)	97 HpA (73 mm Hg)	**DENSITY @ 68°F (20 °C)**	1.0 g/cm^3
VISCOSITY @ 68°F (20 °C)	20 dPas	**MELTING POINT**	Undetermined
DANGER OF EXPLOSION	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.	**UPPER EXPLOSION LIMIT**	1.5 Vol%
		LOWER EXPLOSION LIMIT	11.5 Vol%
ORGANIC SOLVENTS	35.2%	SOLIDS CONTENT	63%
VOC CONTENT	615.9 g/l /5.14 lb/gl		

SECTION X. STABILITY AND REACTIVITY

MATERIALS TO BE AVOIDED:
Highly oxidizing agents

HAZARDOUS DECOMPOSTION PRODUCTS:
Carbon monoxide

THERMAL DECOMPOSITION / CONDITIONS TO BE AVOIDED:
No decomposition if used according to specifications.

SECTION XI. TOXICOLOGICAL INFORMATION

Acute toxicity:
· **Primary irritant effect:**
· **on the skin**: Irritant to skin and mucous membranes.
· **on the eye**: Irritating effect.
Sensitization: No sensitizing effects known.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

SECTION XII. ECOLOGICAL INFORMATION

General notes:
Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION XIII. DISPOSAL CONSIDERATIONS

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.

SECTION XIV. TRANSPORTATION INFORMATION

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

Land transport ADR/RID (cross-border):
ADR/RID class: 3 Flammable liquids
DANGER CODE: 33
UN-NUMBER: 1263
HAZARD CLASS: 3
PACKAGING GROUP: II
DESCRIPTION OF GOODS: 1263 PAINT, special provision 640D
LABEL: 3

Maritime transport IMDG:
IMDG Class: 3
UN Number: 1263
LABEL: 3
PACKAGING GROUP: II
EMS NUMBER: F-E, S-E
MARINE POLLUTANT: No
PROPER SHIPPING NAME: Paint

Air transport ICAO-TI and IATA-DGR:
ICAO/IATA Class: 3
UN/ID Number: 1263
Label 3
Packaging group: II
Propper shipping name: PAINT

SECTION XV. REGULATORY INFORMATION

· Sara
· Section 355 (extremely hazardous substances):
None of the ingredient is listed.
· Section 313 (Specific toxic chemical listings):
None of the ingredients is listed.
· TSCA (Toxic Substances Control Act):
14808-60-7 Quartz (SiO2)
141-78-6 ethyl acetate
13463-67-7 titanium dioxide
79-41-4 methacrylic acid
7631-86-9 silicon dioxide, chemically prepared
21645-51-2 aluminium hydroxide
1314-23-4 zirconium dioxide
· Proposition 65
· Chemicals known to cause cancer:
None of the ingredients is listed.
· Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.
· Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.
· Chemicals known to cause developmental toxicity:
None of the ingredients is listed.
· Cancerogenity categories
· EPA (Environmental Protection Agency)
None of the ingredients is listed.

SECTION XV. REGULATORY INFORMATION

· **IARC (International Agency for Research on Cancer)**		
14808-60-7	Quartz (SiO2)	1
13463-67-7	titanium dioxide	2B
7631-86-9	silicon dioxide, chemically prepared	3
· NTP (National Toxicology Program)		
14808-60-7	Quartz (SiO2)	K
· TLV (Threshold Limit Value established by ACGIH)		
14808-60-7	Quartz (SiO2)	A2
13463-67-7	titanium dioxide	A4
1314-23-4	zirconium dioxide	A4
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
14808-60-7	Quartz (SiO2)	
13463-67-7	titanium dioxide	
· OSHA-Ca (Occupational Safety & Health Administration)		
None of the ingredients is listed.		

Product related hazard informations:
The product has been classified and marked in accordance with directives on hazardous materials.
· Hazard symbols:
Irritant
Highly flammable
· Hazard-determining components of labelling:
ethyl acetate
methacrylic acid
· Risk phrases:
Highly flammable.
Irritating to eyes, respiratory system and skin.
· Safety phrases:
Keep away from sources of ignition - No smoking.
Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Wear suitable protective clothing and gloves.
This material and its container must be disposed of as hazardous waste.

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 dead of 50% mortality of a defined animal population
LD50: (Lethal dose50) Single dose of a substance that, when administrated by a define route in an animal assay, is expected to cause the death of 50% of a defined animal population.

SECTION XVI. OTHER INFORMATION

Glossary:

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

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.

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