



MATERIAL SAFETY DATA SHEET

ALSAN ACCELERATOR

| 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;">3</td><td style="text-align: center;">HEALTH</td></tr> <tr style="background-color: #ff0000; color: white;"><td style="text-align: center;">1</td><td style="text-align: center;">FLAMMABILITY</td></tr> <tr style="background-color: #ff8c00; color: white;"><td style="text-align: center;">0</td><td style="text-align: center;">REACTIVITY</td></tr> <tr style="background-color: #cccccc;"><td style="text-align: center;">B</td><td style="text-align: center;">PROTECTIVE EQUIPMENT</td></tr> </table> | 3 | HEALTH | 1 | FLAMMABILITY | 0 | REACTIVITY | B | PROTECTIVE EQUIPMENT | | <div style="text-align: right; margin-top: 10px;"> ORGANOTIN COMPOUND LIQUID, N.O.S. CLASS 6.1 UN 2788 P.G. </div> |
| 3 | HEALTH | | | | | | | | | |
| 1 | FLAMMABILITY | | | | | | | | | |
| 0 | REACTIVITY | | | | | | | | | |
| B | PROTECTIVE EQUIPMENT | | | | | | | | | |

SECTION II. CHEMICAL PRODUCT AND COMPANY INFORMATION

| | | | |
|------------------------------|--|----------------|--|
| Product name: | Alsan Accelerator | | |
| Use: | Accelerating agent for Alsan Trafik HP 520 | | |
| Manufacturer: | Soprema, Inc. 310 Quadral Drive Wadsworth, Ohio 44281 UNITED STATES | | |
| 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!!!

Yellowish liquid with characteristic odour. WARNING! Harmful. Dangerous for the environment. Irritating to eyes and skin. Harmful: Danger of serious damage to health by prolonged exposure if swallowed. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION II. COMPOSITION AND INFORMATION ON DANGEROUS INGREDIENTS

| Component | CAS# | % WEIGHT | EXPOSURE LIMIT (ACGIH) | |
|----------------------|---------|----------|------------------------|-----------------------|
| | | | TLV-TWA | TLV-STEL |
| Dibutyltin dilaurate | 77-58-7 | 90-100 | 0.1 mg/m ³ | 0.2 mg/m ³ |

SECTION III. POTENTIAL HEALTH EFFECTS

Effects of Short-Term (Acute) Exposure

INHALATION:

Not likely route of entry unless heated. Mist or fog if inhaled can cause harm. Possible irritation of upper respiratory tract. (1) (2)

SKIN CONTACT:

Irritating to skin. Possible irritation and burnings to skin. (1) (2)

EYE CONTACT:

Irritating to eyes. (1)

INGESTION:

Harmful if swallowed. Severe irritation of mouth and throat. (1) (2)

Effects of Long-Term (Chronic) Exposure

INGESTION:

Harmful: danger of serious damage to health by prolonged exposure if swallowed. Possibility of hepatic harm, anaemia and immunological effect. (1) (2)

TARGET ORGANS:

Eyes, skin, digestive system. (1)

CARCINOGENICITY:

Not listed by NTP, IARC, ACGIH, or OSHA as a carcinogen. (1)

SECTION IV. FIRST AID MEASURES

SKIN CONTACT:

In case of contact with skin, wash off with soap and water. If skin irritation persists, get medical attention.

EYE CONTACT:

In case of contact with eyes rinse thoroughly with plenty of water for at least 15 minutes and get medical attention.

INHALATION:

Remove individual from site of exposure, place in fresh air and make rest. If symptoms occur, seek medical attention.

INGESTION:

If swallowed, do not induce vomiting. Seek medical advice immediately and show the container or the label.

GENERAL ADVICE:

Remove contaminated clothing.

SECTION V. FIRE-FIGHTING MEASURES

FLAMMABILITY: Combustible liquid, Class IIIB (OSHA)

EXPLOSION DATA:

Sensitivity to mechanical impact: No information available

Sensitivity to static charge: No information available

FLASH POINT: 149°C

AUTO-IGNITION TEMPERATURE : > 200°C

FLAMMABILITY LIMITS IN AIR: (% in volume) Not applicable

SPECIAL HAZARDS FROM THE SUBSTANCE ITSELF, ITS COMBUSTION PRODUCTS OR FROM ITS VAPOURS:

In the event of fire the following can be released:

- Carbon dioxide, carbon monoxide, tin oxide.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS:

Do not inhale combustion gases in case of explosion and fire. As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

FIRE FIGHTING INSTRUCTIONS:

Evacuate area. Wear self-contained breathing apparatus and appropriate protective clothing in accordance with standards. Approach fire from upwind and fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Always stay away from containers because of the high risk of explosion. Stop leak before attempting to put out the fire. If leak cannot be stopped, and if there is no risk to the surrounding area, let the fire burn itself out. Move containers from fire area if this can be done without risk. Cool containers with flooding quantities of water until well after fire is out.

MEANS OF EXTINCTION:

Foam, carbon dioxide, dry powder, water spray.

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

Wear personal protective equipment. Absorb with inert material such as sand. Prevent entry into waterways, sewers or basements. Collect material and transfer to a tightly closed container. Dispose of this product according to local environmental regulations.

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

Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid skin contact. Wear eye protection, and in case of insufficient ventilation, an appropriate breathing apparatus. Do not eat nor drink during use.

STORAGE:

Do not store or transport together with foodstuffs. Keep in a cool place. Keep containers tightly closed. Keep in a tightly closed container placed in a well ventilated area and away from any source of heat. Keep away from oxidizing materials.

SECTION VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

| | |
|------------------------------------|--|
| GENERAL PROTECTIVE MEASURES | Avoid contact with skin and eyes. Do not inhale gases/vapors/aerosols. |
| HANDS | Gloves made of nitril (NBR). |
| RESPIRATORY | If there is formation of vapours/aerosols: in case of short term exposure, use a filter apparatus against organic gases and vapours. |
| EYES | Goggles with side pieces in accordance with standards. |
| SKIN & BODY PROTECTION | Protective clothing |
| CONTROL OF VAPORS | Local exhaust is needed to control vapour and dust level to below recommended limits. |

SECTION IX. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|---|
| PHYSICAL STATE | Liquid |
| ODOR AND APPEARANCE | Yellowish liquid with characteristic odor |
| ODOR THRESHOLD | Not available |
| VAPOR DENSITY (air = 1) | Not available |
| EVAPORATION RATE (ether = 1) | Not available |
| BOILING POINT (760 mm Hg) | Not determined |
| FREEZING POINT | Not available |
| SPECIFIC GRAVITY (H₂O = 1) | 1.03 - 1.07 g/cm ³ (Method: DIN 51757) |
| SOLUBILITY IN WATER (20° C) | 1 g/L |
| VOLATILE ORGANIC COMPOUND (VOC) CONTENT | Not available |
| VISCOSITY | 30 - 70 mPa.s (Method: DIN 53019) |
| MELTING TEMPERATURE | < -10°C (Method: DIN/ISO 3016) |
| VAPOR PRESSURE | < 1 mbar at 20°C |
| pH | Not determined |

SECTION X. STABILITY AND REACTIVITY

| | |
|--|---|
| STABILITY: | This material is stable. |
| CONDITIONS OF REACTIVITY: | No hazardous reactions with proper storage and handling |
| INCOMPATIBILITY: | Oxidizing agents |
| HAZARDOUS DECOMPOSITION PRODUCTS: | None with proper storage |
| THERMAL DECOMPOSITION | > 250°C |
| HAZARDOUS POLYMERISATION: | None |

SECTION XI. TOXICOLOGICAL INFORMATION**TOXICOLOGICAL DATA**

| | | |
|---|-------------------------|--|
| PCBTF: (2) | LC50 (rat): | 4 470 ppm (4-hour exposure) |
| | LD50 (oral, rat): | > 6 700 mg/kg |
| | LD50 (skin, rabbit): | Approx. 2 700 mg/kg |
| MDI: (1) | LC50 (rat): | 6 350 ppm (4-hour exposure) (unspecified isomers and ethylbenzene) |
| | LD50 (oral, rat): | 5 400 mg/kg |
| | LD50 (dermal, rabbit): | 12 180 mg/kg; greater than 1 700 mg/kg (mixed xylenes - undefined composition) |
| [3-(2,3-Epoxypropoxy) propyl] trimethoxysilane: (2) | LD50 (oral, rat): | > 24 000 mg/kg |
| | LD50 (skin, rabbit): | > 4 000 mg/kg |
| Benzoyl Chloride: (1) | LC50 (inhalation, rat): | 230 ppm (4-hour exposure); cited as 1.87 mg/L (2-hour exposure) |
| | LD 50 (oral, rat): | 1 900 mg/kg |
| | LD50 (skin, rabbit): | 790 mg/kg |

Effects of Short-Term (Acute) Exposure**TOXICOLOGICAL DATA:****Dibutyltin dilaurate: (1)**

LC50 (inhalation, rat, 4 hrs): No information available

LD50 (oral, rat): 450 mg/kg

LD50 (dermal, rabbit): No information available

NOTE:

Harmful if swallowed.

Irritating to eyes and skin. (1)

SECTION XII. ECOLOGICAL INFORMATION**ENVIRONMENTAL EFFECTS:**

The product is considered to be a strong water pollutant. Do not allow to enter soil, waterways or waste water canal.

SECTION XIII. DISPOSAL CONSIDERATIONS**WASTE DISPOSAL:****Product:** In accordance with local authority regulations, take to special waste incineration plant.**Contaminated packaging:** If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.**SECTION XIV. TRANSPORTATION INFORMATION**

| | |
|--|--|
| NAME OF PRODUCT: Alsan Accelerator | IDENTIFICATION NUMBER: UN 2788 |
| CLASSIFICATION (TDG - DOT): Class 6.1 | SHIPPING NAME: Organotin Compound, Liquid, N.O.S. |
| CONTAINERS FOLLOW THE STANDARDS OF: Canada: CAN / CGSB-43.150-97 USA: CFR 49 parts 100 to 199 | PACKING GROUP: III |

SECTION XV. REGULATORY INFORMATION**WHMIS:** Class D1B: Toxic material causing immediate severe effects.**Class D2B:** Toxic material causing other toxic effects.**DSL:** All constituents of this product are included in the Domestic Substances List (DSL – Canada).**TSCA:** All constituents of this product are included in the Toxic Substances Control Act Inventory (TSCA – USA).**USA – California Proposition 65:** None

HMIS (USA): Health - 3, Flammability - 1, Reactivity - 0, Protective Equipment - B

NFPA (USA): Health - 3, Flammability - 1, Reactivity - 0, Specific Hazard - n/a

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.
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.U](http://WWW.SOPREMA.U)

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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