

ALSAN RS CLEANER

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 03/22/2017

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance
Substance name : ALSAN RS CLEANER
Chemical name : Methyl Acetate

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Cleaner for PMMA membranes

1.3. Details of the supplier of the safety data sheet

Manufacturer:
SOPREMA USA
310 Quadral Dr.
Wadsworth, OH 44281
Tel: 1-800-356-3521

Distributors:
SOPREMA Canada
1675 Haggerty Street
Drummondville (Quebec) J2C 5P7
Tel: 1-819-478-8163

SOPREMA Canada
44955 Yale Road West
Chilliwack (BC) V2R 4H3
CANADA
Tel: 1-604-793-7100

SOPREMA USA
12251 Seaway Road
Gulfport (Mississippi) 39507
UNITED STATES
Tel: 1-228-701-1900

1.4. Emergency telephone number

Emergency number : CHEMTREC 1-800-434-9300 (Acct.# CCN20515). CANUTEC 1-613-996-6666

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Flammable liquids Cat 2 H225
Serious eye damage / irritation Cat 2A H319
STOT SE 3 Cat 3 H336

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) : Danger
Hazard statements (GHS-US) : H225 - Highly flammable liquid and vapor
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness

Precautionary statements (GHS-US) : P210 - Keep away from sources of ignition, torches and open flames. - No smoking
P243 - Take precautionary measures against static discharge.

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P271 - Use only outdoors or in a well-ventilated area
P280 - Wear butyl rubber gloves
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P312 - Call a poison center if you feel unwell
P370+P378 - In case of fire: use water spray, extinguishing powder, foam or carbon dioxide to extinguish.
P305+P351+P338- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313- If eye irritation persists: Get medical advice/attention.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Product :

Name	Product identifier	%
Methyl acetate	(CAS No) 79-20-9	100

3.2. Information on ingredients

Type	CAS No.	Substance	Content (wt%)		Note
			Lower	Upper	
INHA	79-20-9	Methyl acetate		<=100.0	

Type: HYD - by-product upon hydrolysis, INHA - ingredient, NEBE - by-product, MONO - residual monomer, VERU - impurity, VUL - by-product upon vulcanization. ***** Note:** C1 - IARC carcinogen, C2 - NTP carcinogen, C3 - OSHA carcinogen, NH - non-hazardous, R - reproductive toxin.

Substances listed in the Subsections "HAPS" and "California Proposition 65 Carcinogens / Reproductive Toxins" that are not listed in this section are only present at quantities below 0.1% for California Proposition 65 listed toxins or below 1% for non-carcinogenic HAPS or they are inextricably bound in the product.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Get medical attention if irritation or other symptoms occur. Before seeking medical attention remove contaminated clothing and shoes. Take a copy of the Safety Data Sheet when going for medical treatment.

First-aid measures after inhalation : If inhaled remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen.

First-aid measures after skin contact : If contact with skin, immediately flush skin with plenty of water for at least 15 min.

First-aid measures after eye contact : If contact with eyes, immediately hold eyelids apart and flush with plenty of water for at least 15 min.

First-aid measures after ingestion : For Ingestion, do not attempt to induce vomiting. Danger of aspiration. Induce drinking plenty of water in small portions. Get medical attention immediately. Show label if possible.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May cause drowsiness or dizziness.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Flammable properties

Property:	Value:	Method:
Flash point	-14 °C (6 °F)	(ISO 13736)
Boiling point / boiling range	55 - 57 °C (131 - 134 °F) at 1013 hPa	
Lower explosion limit (LEL)	3.1 %(V)	
Upper explosion limit (UEL)	16.0 %(V)	
Ignition temperature	505 °C (941 °F)	(DIN 51794)
NFPA Hazard Class (comb./flam.liquid)	IB	

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5.2. Fire and explosion hazards

Warning! Extremely flammable liquid and vapor. Vapor may cause flash fire. Vapors are heavier than air and may travel along the ground, be moved by ventilation systems, settle in pits or low areas, and be ignited by ignition sources distant from the handling point. Consider possible formation of explosive mixtures with air, for example in uncleaned containers. Never use welding or cutting torch on or near any container of this material, even if empty, because an explosion could occur.

5.3. Recommended extinguishing media

water-mist , carbon dioxide , dry chemical or alcohol-resistant foam .

5.4. Unsuitable extinguishing media

sharp water jet .

5.5. Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

At low oxygen level: acetic acid . Hazardous combustion products: carbon dioxide , carbon monoxide and incompletely burnt hydrocarbons .

5.6. Fire fighting procedures

Fire fighters should wear full protective clothing including a self-contained breathing apparatus. Cool endangered containers with water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Wear personal protection equipment (see section 8). Avoid contact with eyes and skin. Avoid inhaling mists and vapours.
HAZWOPER PPE Level: C

6.2. Containment

Prevent material from entering sewers or surface waters. Contain any fluid that runs out using suitable material (e.g. earth). Dispose of in prescribed marked containers. Observe local/state/federal regulations.

Spills of material which could reach surface waters must be reported to the United States Coast Guard National Response Center's toll free phone number (800) 424-8802.

6.3. Methods for cleaning up

Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Contain larger amounts and pump up into suitable containers.

6.4. Further information

Eliminate all sources of ignition.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions against fire and explosion : Cool endangered containers with water. Flammable vapors may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Take precautionary measures against electrostatic charging. Keep away from sources of ignition and do not smoke.

Precautions for safe handling : Ensure adequate ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Conditions for storage rooms and vessels : none known

Advice for storage of incompatible materials : Do not store together with fire-promoting and spontaneously inflammable substances or with highly inflammable solids.

Further information for storage : Keep container tightly closed and store in a cool, well ventilated place.

Minimum temperature allowed during storage and transportation : Do not allow this material to freeze.

Maximum temperature allowed during storage and transportation : 100 °C (212 °F) Temperature limit based on safety considerations.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

CAS No.	Material	Type	mg/m3	ppm	Dust fraction
79-20-9	Methyl acetate	OSHA PEL	610.0	200.0	
79-20-9	Methyl acetate	ACGIH TWA		200.0	

Re Methyl acetate (CAS-no. 79-20-9): STEL is 250 ppm (ACGIH).

8.2. Engineering controls

Ventilation:

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General ventilation sufficient to provide 1 CFM per square foot of floor area or 6 room air exchanges per hour is recommended.

Local exhaust:

To control flammable/combustible vapors: Local exhaust ventilation which meets the requirements of ANSI Z9.2 is recommended to control airborne contaminants at the point of use. (to maintain concentration below TLV)

8.3. Personal protective equipment (PPE)

Respiratory protection:

Recommendation in case of long or strong exposure: A NIOSH approved air purifying respirator equipped with universal multi-contaminant multi-gas/vapor cartridges is recommended if overexposure to chemical vapors could occur. If eye-irritating dusts or vapors are present, a full-face respirator should be worn.

Hand protection:

butyl rubber protective gloves .

Eye protection:

Safety glasses with side shields or chemical safety goggles. Where there is risk of splashing: tight fitting chemical safety goggles .

Other protective clothing or equipment:

Additional skin protection, such as SARANEX coated Tyvek apron, over-sleeves, lab coat, coveralls, or protective suit should be worn if splashing could occur. Provide eye bath and safety shower.

8.4. General hygiene and protection measures

Avoid contact with eyes, skin and clothing. Avoid breathing dust/vapor/mist/gas/aerosol. When handling do not eat, drink, smoke or apply cosmetics. Follow standard industrial hygiene practices when using this material. Wash thoroughly after handling.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Colorless liquid.
Color	: Colorless
Odor	: pleasant
Odor threshold	: No data available
pH	: 3.9 at 20 °C (68 °F) (295 g/l H2O)
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: -98 °C (-144 °F)
Freezing point	: No data available
Boiling point	: 55 - 57 °C (131 - 134 °F) at 1013 hPa
Flash point	: -14 °C (6 °F)
Auto-ignition temperature	: 505 °C (941 °F)
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: 782 hPa at 50 °C (122 °F)
Vapor pressure	: 220 hPa at 20 °C (68 °F)
Specific Gravity	: No data available
Water solubility	: 239 g/l at 20 °C (68 °F)
Log Pow	: 0.18 (Log pOW)
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available.
Oxidizing properties	: No data available
Lower explosion limit (LEL)	: 3.1 %(V)
Upper explosion limit (UEL)	: 16.0 %(V)

9.2. Other information

VOC	: <5g/L
Percent Volatiles	: 100%

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SECTION 10: Stability and reactivity

10.1. General information

Flammable vapors may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces.

10.2. Conditions to avoid

Static charge/discharge, formation of vapours/aerosoles, sources of ignition.

10.3. Materials to avoid

oxidizing agents . Reacts with: alkalis . Reaction causes the formation of: methanol and heat .

10.4. Hazardous decomposition products

If stored and handled properly: none known .

10.5. Further information

In use, may form flammable/explosive vapour-air mixture.

Hazardous polymerization cannot occur.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity:

Route of exposure	Result/Effect	Species/Test system	Source
Oral	LD50: > 6482 mg/kg	rat	literature
Dermal	LD50: > 2000 mg/kg	rat	test report OECD 402
By inhalation (vapor)	LC50: > 49.2 mg/l; 4 h	rat	literature

Skin corrosion/irritation:

Result/effect	Species/Test system	Source
Not irritating	Rabbit	Test report OECD 404

Serious eye damage/eye irritation:

Result/effect	Species/Test system	Source
irritating	Rabbit	Test report OECD 405

Respiratory or skin sensitization:

Route of exposure	Result/Effect	Species/Test system	Source
dermal	not sensitizing The given result is based on an evaluation of the whole database for this endpoint ("weight of evidence").	Not specified	literature

Germ cell mutagenicity:

Result/effect	Species/Test system	Source
Negative	mutation assay (in vitro) bacterial cells	Test report OECD 471
Negative	micro nucleus assay (in vivo)	Test report OECD 474

Carcinogenicity:

Assessment:

Based on the available toxicological data no specific evaluation of the carcinogenic potential is scientifically implicated.

Reproductive toxicity:

Assessment:

Based on hydrolysis characteristics of the substance the assessment is based on the hydrolysis products. On the basis of the available data no reproductive hazards are expected.

Specific target organ toxicity (single exposure):

Assessment:

Vapors may be narcotising

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Specific target organ toxicity (repeated exposure):

Assessment:

Based on the available data the criteria for classification as toxic after repeated exposure are not fulfilled.

Product details:

Result/effect	Species/Test system	Source
NOAEC: 1.057 mg/l LOAEC: 6.04 mg/l Target organs: olfactory mucosa Symptoms/Effect: Degeneration and necrosis of the olfactory mucosa.	Subacute study rat by inhalation (spray) 28 d; 5 d/w; 6 hours/day	Test report OECD 407

Aspiration hazard:

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Further toxicological information:

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Other information: Hydrolysis product / impurity: Methanol (CAS 67-56-1) is readily and rapidly absorbed at all exposure routes and is toxic by all routes. Methanol may cause irritation of the mucosa, as well as nausea, vomiting, headaches, vertigo and visual disorders, including blindness (irreversible damage to the optic nerve), acidosis, spasms, narcosis and coma. There may be a delay in the onset of these effects after exposure. Product dries the skin. Repeated exposure may cause skin dryness or cracking.

SECTION 12: Ecological information

12.1. Toxicity

Result/effect	Species/Test system	Source
LC50: 250 - 350 mg/l	static zebra fish (Danio rerio) (96 h)	ECHA OECD 203
EC50: 1026.7 mg/l	static Daphnia magna (48 h)	ECHA OECD 202
EC50 (growth rate): > 120 mg/l	static Desmodesmus subspicatus (72 h)	ECHA OECD 201
EC50: 6000 mg/l	static Pseudomonas putida (16 h)	ECHA

12.2. Persistence and degradability

Biodegradation:

Result/effect	Test system/Method	Source
70 % / 28 d readily biodegradable	biological oxygen demand (BOD)	ECHA OECD 301D

12.3. Bioaccumulative potential

Assessment:

No adverse effects expected.

12.4. Mobility in soil

Assessment:

The partition coefficient soil/water (logKoc) indicates a very high mobility in soil.

Adsorption –desorption :

Result/effect	Test system/Method	Source
log KOC: 0.18	Estimation of the adsorption coefficient (Koc) on soil and on sewage sludge using high performance liquid chromatography (HPLC)	test report OECD 121

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12.5. Other adverse effects

Effect on ozone layer : No additional information available
Effect on the global warming : No additional information available
Other information : No additional information available

SECTION 13: Disposal considerations

13.1. RCRA Waste Classification

D001 (Ignitable)
This classification applies only to the material as it was originally produced.

13.2. Product disposal

Recommendation:
Dispose of according to regulations by incineration in a special waste incinerator. Small quantities may be disposed of by incineration in an approved facility. Observe local/state/federal regulations.

13.3. Packaging disposal

Recommendation:
Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations.

SECTION 14: Transport information

In accordance with DOT
Transport document description : UN1231 Methyl acetate, 3, II
UN-No.(DOT) : 1231
DOT NA no. : UN1231
DOT Proper Shipping Name : Methyl acetate
NAERG Guide : 129
Department of Transportation (DOT) Hazard Classes : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT) : 3 - Flammable liquid



Packing group (DOT) : II - Medium Danger

Additional information

Other information : No supplementary information available.

ADR

Transport document description :

Transport by sea

UN-No. (IMDG) : 1231
Proper Shipping Name (IMDG) : Methyl acetate
Class (IMDG) : 3 - Flammable liquids
Packing group (IMDG) : II - substances presenting medium danger
Marine pollutant : No
Valuation : Dangerous goods

Air transport

UN-No.(IATA) : 1231
Proper Shipping Name (IATA) : Methyl acetate
Class (IATA) : 3 - Flammable Liquids
Packing group (IATA) : II - Medium Danger
Valuation : Dangerous goods

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SECTION 15: Regulatory information

15.1. US Federal regulations

TSCA inventory status and TSCA information:

This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

TSCA 12(b) Export Notification:

This material does not contain any TSCA 12(b) regulated chemicals.

CERCLA Regulated Chemicals:

This material does not contain any CERCLA regulated chemicals.

SARA 302 EHS Chemicals:

This material does not contain any SARA extremely hazardous substances.

SARA 311/312 Hazard Class:

Fire hazard. Immediate (acute) health hazard.

SARA 313 Chemicals:

This material does not contain any SARA 313 chemicals above de minimus levels.

HAPS (Hazardous Air Pollutants) :

CAS No.	Chemical	Upper limit wt. %
75-07-0	Acetaldehyde	0.0010
67-56-1	Methanol	0.09

15.2. International regulations

Details of international registration status

Relevant information about individual substance inventories, where available, is given below.

South Korea (Republic of Korea)

ECL (Existing Chemicals List):

This product is listed in, or complies with, the substance inventory.

Japan

ENCS (Handbook of Existing and New Chemical Substances):

This product is listed in, or complies with, the substance inventory.

Australia

AICS (Australian Inventory of Chemical Substances):

This product is listed in, or complies with, the substance inventory.

People's Republic of China

IECSC (Inventory of Existing Chemical Substances in China):

This product is listed in, or complies with, the substance inventory.

Canada

DSL (Domestic Substance List):

This product is listed in, or complies with, the substance inventory.

Philippines

PICCS (Philippine Inventory of Chemicals and Chemical Substances):

This product is listed in, or complies with, the substance inventory.

United States of America (USA)

TSCA (Toxic Substance Control Act Chemical Substance Inventory):

This product is listed in, or complies with, the substance inventory.

European Economic Area (EEA)

REACH (Regulation (EC) No 1907/2006):

REACH registration number: 01-2119459211-47-0000

General note: the registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported into the EEA by customers or other downstream users must be fulfilled by the latter.

15.3. US State regulations

California Proposition 65 Carcinogens:

75-07-0 Acetaldehyde

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California Proposition 65 Reproductive Toxins:

67-56-1 Methanol

Massachusetts Substance List:

79-20-9 Methyl acetate

New Jersey Right-to-Know Hazardous Substance List:

79-20-9 Methyl acetate

Pennsylvania Right-to-Know Hazardous Substance List:

79-20-9 Methyl acetate

15.4. Canadian regulations

This product has been classified in accordance with the Hazard criteria of the CPR and the SDS contains all the information required by the CPR.

WHMIS Hazard Classes:

B2, D2B

DSL Status:

This material or its components are listed on the Canadian Domestic Substances List.

Non-DSL Chemicals:

This material does not contain any non-DSL chemicals.

SECTION 16: Other information

Revision date : 03/22/2017

Other information : None.

Full text of H-phrases: see section 16:

H225	Highly flammable liquid and vapor
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

Glossary of terms:

ACGIH - American Conference of Governmental Industrial Hygienists
DOT - Department of Transportation
hPa - Hectopascals
mPa*s - Milli Pascal-Seconds
OSHA - Occupational Safety and Health Administration
PEL - Permissible Exposure Limit
ppm - Parts per Million
SARA - Superfund Amendments and Reauthorization Act
STEL - Short Term Exposure Limit
TSCA - Toxic Substances Control Act
TWA - Time Weighted Average
WHMIS - Canadian Workplace Hazardous Materials Identification System

Flash point determination methods:

ASTMD56	Tagliabue (Tag) closed cup
ASTM D92, DIN 51376, ISO 2592	Cleveland open cup
ASTM D93, DIN 51758, ISO 2719	Pensky-Martens closed cup
ASTM D3278, DIN 55680, ISO 3679	Setaflash or Rapid closed cup
DIN 51755	Abel-Pensky closed cup

SDS US (GHS HazCom 2012) - Custom

This SDS contains all the information required by ANSI Z400.1 standard (United States), by regulation 29 CFR Part 1910-1200 of the Hazard Communication Standard of OSHA and is in accordance with DORS/88-66 of WHMIS (Canada).

The best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy of 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.