

# **Alumithane Direct to Rust Primer Aluminum - F92908**

## **ICP Construction**

Version No: 3.4 Safety Data Sheet according to OSHA HazCom Standard (2012) requirements Issue Date: 06/14/2018 Print Date: 06/14/2018 S.GHS.USA.EN

## **SECTION 1 IDENTIFICATION**

### **Product Identifier**

Product name	Alumithane Direct to Rust Primer Aluminum - F92908	
Synonyms	Not Available	
Other means of identification	Not Available	

### Recommended use of the chemical and restrictions on use

Relevant identified uses	Direct to rust primer
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## Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	ICP Construction
Address	150 Dascomb Road Andover MA United States
Telephone	978-623-9980
Fax	Not Available
Website	http://www.icp-construction.com/
Email	Not Available

### **Emergency phone number**

Association / Organisation	Chemtel
Emergency telephone numbers	1-800-255-3924
Other emergency telephone numbers	1-813-248-0585

# **SECTION 2 HAZARD(S) IDENTIFICATION**

### Classification of the substance or mixture



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification

Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Skin Sensitizer Category 1, Respiratory Sensitizer Category 1, Carcinogenicity Category 2, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation), Specific target organ toxicity - single exposure Category 3 (narcotic effects), Specific target organ toxicity - repeated exposure Category 2, Aspiration Hazard Category 1, Chronic Aquatic Hazard Category 2

# Label elements

Hazard pictogram(s)







SIGNAL WORD

DANGER

## Hazard statement(s)

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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H351	Suspected of causing cancer.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H304	May be fatal if swallowed and enters airways.
H411	Toxic to aquatic life with long lasting effects.

# Hazard(s) not otherwise specified

Not Applicable

## Precautionary statement(s) General

P101	If medical advice is needed, have product container or label at hand.	
P102	Keep out of reach of children.	

# Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.

## Precautionary statement(s) Response

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.	
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	

# Precautionary statement(s) Storage

P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

## Precautionary statement(s) Disposal

Dispose of contents/container in accordance with local regulations.

# SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

## Substances

See section below for composition of Mixtures

# Mixtures

CAS No	%[weight]	Name
1330-20-7	4.7	xylene *
97952-68-6	0.7	bentone SD-1
64742-95-6.	25	aromatic 150
75880-28-3	51	MDI/ tripropylene glycol copolymer
8052-41-3.	0.18	white spirit
Not Available	17.5	Strapa 4

## **SECTION 4 FIRST-AID MEASURES**

# Description of first aid measures

Eye Contact	► Generally not applicable.
Skin Contact	If skin contact occurs:  Immediately remove all contaminated clothing, including footwear.  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.  Generally not applicable.
Inhalation	<ul> <li>If furnes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor, without delay.</li> <li>Following uptake by inhalation, move person to an area free from risk of further exposure. Oxygen or artificial respiration should be administered as needed.</li> <li>Asthmatic-type symptoms may develop and may be immediate or delayed up to several hours. Treatment is essentially symptomatic. A physician should be consulted.</li> <li>Generally not applicable.</li> </ul>
Ingestion	<ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> </ul>

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- Seek medical advice.
- Avoid giving milk or oils.
- Avoid giving alcohol.
- Generally not applicable.
- If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.

### Most important symptoms and effects, both acute and delayed

See Section 11

#### Indication of any immediate medical attention and special treatment needed

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours.

For sub-chronic and chronic exposures to isocvanates:

- This material may be a potent pulmonary sensitiser which causes bronchospasm even in patients without prior airway hyperreactivity
- Clinical symptoms of exposure involve mucosal irritation of respiratory and gastrointestinal tracts
- Conjunctival irritation, skin inflammation (erythema, pain vesiculation) and gastrointestinal disturbances occur soon after exposure.
- Pulmonary symptoms include cough, burning, substernal pain and dyspnoea.
- Some cross-sensitivity occurs between different isocyanates
- Noncardiogenic pulmonary oedema and bronchospasm are the most serious consequences of exposure. Markedly symptomatic patients should receive oxygen, ventilatory support and an intravenous line.
- ► Treatment for asthma includes inhaled sympathomimetics (epinephrine [adrenalin], terbutaline) and steroids.
- Activated charcoal (1 g/kg) and a cathartic (sorbitol, magnesium citrate) may be useful for ingestion.
- Mydriatics, systemic analgesics and topical antibiotics (Sulamyd) may be used for corneal abrasions.
- ▶ There is no effective therapy for sensitised workers.

[Ellenhorn and Barceloux; Medical Toxicology]

NOTE: Isocyanates cause airway restriction in naive individuals with the degree of response dependant on the concentration and duration of exposure. They induce smooth muscle contraction which leads to bronchoconstrictive episodes. Acute changes in lung function, such as decreased FEV1, may not represent sensitivity. [Karol & Jin. Frontiers in Molecular Toxicology, pp 56-61, 1992]

Personnel who work with isocyanates, isocyanate prepolymers or polyisocyanates should have a pre-placement medical examination and periodic examinations thereafter, including a pulmonary function test. Anyone with a medical history of chronic respiratory disease, asthmatic or bronchial attacks, indications of allergic responses, recurrent eczema or sensitisation conditions of the skin should not handle or work with isocyanates. Anyone who develops chronic respiratory distress when working with isocyanates should be removed from exposure and examined by a physician. Further exposure must be avoided if a sensitivity to isocyanates or polyisocyanates has developed.

For acute or short term repeated exposures to xylene:

- Gastro-intestinal absorption is significant with ingestions. For ingestions exceeding 1-2 ml (xylene)/kg, intubation and lavage with cuffed endotracheal tube is recommended. The use of charcoal and cathartics is equivocal.
- ▶ Pulmonary absorption is rapid with about 60-65% retained at rest.
- Primary threat to life from ingestion and/or inhalation, is respiratory failure.
- Patients should be quickly evaluated for signs of respiratory distress (e.g. cyanosis, tachypnoea, intercostal retraction, obtundation) and given oxygen. Patients with inadequate tidal volumes or poor arterial blood gases (pO2 < 50 mm Hg or pCO2 > 50 mm Hg) should be intubated.
- Arrhythmias complicate some hydrocarbon ingestion and/or inhalation and electrocardiographic evidence of myocardial injury has been reported; intravenous lines and cardiac monitors should be established in obviously symptomatic patients. The lungs excrete inhaled solvents, so that hyperventilation improves clearance.
- A chest x-ray should be taken immediately after stabilisation of breathing and circulation to document aspiration and detect the presence of pneumothorax.
- Figure phrine (adrenalin) is not recommended for treatment of bronchospasm because of potential myocardial sensitisation to catecholamines. Inhaled cardioselective bronchodilators (e.g. Alupent, Salbutamol) are the preferred agents, with aminophylline a second choice.

BIOLOGICAL EXPOSURE INDEX - BEI

These represent the determinants observed in specimens collected from a healthy worker exposed at the Exposure Standard (ES or TLV):

Determinant Sampling Time Comments Index 1.5 gm/gm creatinine End of shift Methylhippu-ric acids in urine 2 mg/min Last 4 hrs of shift

## **SECTION 5 FIRE-FIGHTING MEASURES**

### Extinguishing media

- ▶ Flooding quantities of water only.
- Foam
- Dry chemical powder.

### Special hazards arising from the substrate or mixture

Fire Incompatibility ▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

### Special protective equipment and precautions for fire-fighters

Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Slight hazard when exposed to heat, flame and oxidisers.</li> </ul>
Fire/Explosion Hazard	Moderate fire hazard when exposed to heat or flame.  Combustion products include: carbon monoxide (CO) carbon dioxide (CO2) hydrogen cyanide isocyanates and minor amounts of nitrogen oxides (NOx) sulfur oxides (SOx) other pyrolysis products typical of burning organic material. May emit corrosive furnes.  Articles and manufactured articles may constitute a fire hazard where polymers form their outer layers or where combustible packaging remains in place. Certain substances, found throughout their construction, may degrade or become volatile when heated to high temperatures.

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# **SECTION 6 ACCIDENTAL RELEASE MEASURES**

### Personal precautions, protective equipment and emergency procedures

See section 8

## **Environmental precautions**

See section 12

## Methods and material for containment and cleaning up

Methods and material for cor	ntaninent and cleaning up
Minor Spills	▶ Clean up all spills immediately.     ▶ Secure load if safe to do so.
Major Spills	<ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>For isocyanate spills of less than 40 litres (2 m2):</li> <li>Evacuate area from everybody not dealing with the emergency, keep them upwind and prevent further access, remove ignition sources and, if inside building, ventilate area as well as possible.</li> <li>Notify supervision and others as necessary.</li> <li>Avoid contamination with water, alkalies and detergent solutions.</li> <li>Material reacts with water and generates gas, pressurises containers with even drum rupture resulting.</li> <li>DO NOT touch the spill material</li> <li>Minor hazard.</li> <li>Clear area of personnel.</li> <li>Clear up all spills immediately.</li> <li>Wear protective clothing, safety glasses, dust mask, gloves.</li> </ul>

Personal Protective Equipment advice is contained in Section 8 of the SDS.

## **SECTION 7 HANDLING AND STORAGE**

Precautions for safe handling	The conductivity of this material may make it a static accumulator., A liquid is typically considered nonconductive if its conductivity is below 10 pS/m and is considered semi-conductive if its conductivity is below 10 000 pS/m., Whether a liquid is nonconductive or semi-conductive, the precautions are the same., A number of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of a liquid.  • Containers, even those that have been emptied, may contain explosive vapours.
Safe handling	<ul> <li>Do NOT cut, drill, grind, weld or perform similar operations on or near containers.</li> <li>Electrostatic discharge may be generated during pumping - this may result in fire.</li> <li>Ensure electrical continuity by bonding and grounding (earthing) all equipment.</li> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> </ul>
Other information	► Store away from incompatible materials.

Suitable container	Generally packaging as originally supplied with the article or manufactured item is sufficient to protect against physical hazards. If repackaging is required ensure the article is intact and does not show signs of wear.
Storage incompatibility	Xylenes:  In may ignite or explode in contact with strong oxidisers, 1,3-dichloro-5,5-dimethylhydantoin, uranium fluoride  In attack some plastics, rubber and coatings  In may generate electrostatic charges on flow or agitation due to low conductivity.  Vigorous reactions, sometimes amounting to explosions, can result from the contact between aromatic rings and strong oxidising agents.  Aromatics can react exothermically with bases and with diazo compounds.  For alkyl aromatics:  The alkyl side chain of aromatic rings can undergo oxidation by several mechanisms. The most common and dominant one is the attack by oxidation a benzylic carbon as the intermediate formed is stabilised by resonance structure of the ring.  Segregate from alcohol, water.  Avoid strong acids, bases.  Avoid contamination with water, alkalies and detergent solutions.  Material reacts with water and generates gas, pressurises containers with even drum rupture resulting.

# **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

# **Control parameters**

# OCCUPATIONAL EXPOSURE LIMITS (OEL)

## INGREDIENT DATA

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Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US ACGIH Threshold Limit Values (TLV)	xylene	Xylene (all isomers)	100 ppm	150 ppm	Not Available	TLV® Basis: URT & eye irr; CNS impair; BEI
US OSHA Permissible Exposure Levels (PELs) - Table Z1	xylene	Xylenes (o-, m-, p-isomers)	100 ppm / 435 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	white spirit	Ligroin, Painters naphtha, Petroleum ether, Petroleum spirit, Refined solvent naphtha, Varnish makers' & painters' naphtha	350 mg/m3	Not Available	1800 mg/m3	[15-minute]

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US NIOSH Recommended Exposure Limits (RELs)	white spirit	Crude solvent coal tar naphtha, High solvent naphtha, Naphtha	100 ppm / 400 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	white spirit	Aliphatic petroleum naphtha, Petroleum naphtha, Rubber solvent	350 mg/m3	Not Available	1800 mg/m3	[15-minute]
US NIOSH Recommended Exposure Limits (RELs)	white spirit	Dry cleaning safety solvent, Mineral spirits, Petroleum solvent, Spotting naphtha [Note: A refined petroleum solvent with a flash point of 102-110°F, boiling point of 309-396°F, and containing >65% C10 or higher hydrocarbons.]	350 mg/m3	Not Available	1800 mg/m3	[15-minute]
US ACGIH Threshold Limit Values (TLV)	white spirit	Stoddard solvent	100 ppm	Not Available	Not Available	TLV® Basis: Eye, skin, & kidney dam; nausea; CNS impair
US OSHA Permissible Exposure Levels (PELs) - Table Z1	white spirit	Naphtha (Coal tar)	100 ppm / 400 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Levels (PELs) - Table Z1	white spirit	Stoddard solvent	500 ppm / 2900 mg/m3	Not Available	Not Available	Not Available

## **EMERGENCY LIMITS**

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
xylene	Xylenes	Not Available	Not Available	Not Available
white spirit	Naphtha, hydrotreated heavy; (Isopar L-rev 2)	350 mg/m3	1,800 mg/m3	40,000 mg/m3
white spirit	Petroleum distillates; petroleum ether; includes clay-treated light naphthenic [64742-45-6]; low boiling [68477-31-6]; petroleum extracts [64742-06-9]; petroleum base oil [64742-46-7]; petroleum 50 thinner, petroleum spirits [64475-85-0], Soltrol, VM&P naphtha [8032-32-4]; Ligroine, and paint solvent; petroleum paraffins C5-C20 [64771-72-8]; hydrotreated light naphthenic [64742-53-6]; solvent refined light naphthenic [64741-97-5]; and machine coolant 1	1,100 mg/m3	1,800 mg/m3	40,000 mg/m3
white spirit	Naphtha (coal tar); includes solvent naphtha, petroleum (64742-88-7), naphtha (petroleum) light aliphatic, rubber solvent (64742-89-8), heaevy catalytic cracked (64741-54-4), light straight run (64741-46-4), heavy aliphatic solvent (64742-96-7), high flash aromatic and aromatic solvent naphtha (64742-95-6)	1,200 mg/m3	6,700 mg/m3	40,000 mg/m3
white spirit	Stoddard solvent; (Mineral spirits, 85% nonane and 15% trimethyl benzene)	300 mg/m3	1,800 mg/m3	29500 mg/m3

Ingredient	Original IDLH	Revised IDLH
xylene	900 ppm	Not Available
bentone SD-1	Not Available	Not Available
aromatic 150	Not Available	Not Available
MDI/ tripropylene glycol copolymer	Not Available	Not Available
white spirit	20000 mg/m3 / 1,100 [LEL] ppm / 1,000 [LEL] ppm	Not Available
Strapa 4	Not Available	Not Available

# **Exposure controls**

### Appropriate engineering controls

Articles or manufactured items, in their original condition, generally don't require engineering controls during handling or in normal use. Exceptions may arise following extensive use and subsequent wear, during recycling or disposal operations where substances, found in the article, may be

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

## Personal protection









# Eye and face protection

- ► Safety glasses with side shields.
- Chemical goggles.

No special equipment required due to the physical form of the product.

# Skin protection

See Hand protection below

# Hands/feet protection

- NOTE: F The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to
- avoid all possible skin contact. ▶ Isocyanate resistant materials include Teflon, Viton, nitrile rubber and some PVA gloves.
- $\blacksquare \ \, \text{Protective gloves and overalls should be worn as specified in the appropriate national standard.}$

No special equipment required due to the physical form of the product.

# **Body protection**

See Other protection below

# Other protection

 Overalls. ₱ P.V.C.

# Respiratory protection

Respiratory protection not normally required due to the physical form of the product.

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# **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

# Information on basic physical and chemical properties

Appearance	Not Available		
7.ppesii sii 150	- Total trainable		
Physical state	article	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

# **SECTION 10 STABILITY AND REACTIVITY**

Reactivity	See section 7
Chemical stability	Presence of elevated temperatures.  Product is considered stable and hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

# **SECTION 11 TOXICOLOGICAL INFORMATION**

# Information on toxicological effects

information on toxicological	
Inhaled	The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo.  Inhaling high concentrations of mixed hydrocarbons can cause narcosis, with nausea, vomiting and lightheadedness. Low molecular weight (C2-C12) hydrocarbons can irritate mucous membranes and cause incoordination, giddiness, nausea, vertigo, confusion, headache, appetite loss, drowsiness, tremors and stupor.  Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory depression and may be fatal. Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination.  Headache, fatigue, tiredness, irritability and digestive disturbances (nausea, loss of appetite and bloating) are the most common symptoms of xylene overexposure. Injury to the heart, liver, kidneys and nervous system has also been noted amongst workers.  Xylene is a central nervous system depressant
Ingestion	Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. (ICSC13733)  Accidental ingestion of the material may be damaging to the health of the individual.  Ingestion of petroleum hydrocarbons can irritate the pharynx, oesophagus, stomach and small intestine, and cause swellings and ulcers of the mucous.  Symptoms include a burning mouth and throat; larger amounts can cause nausea and vomiting, narcosis, weakness, dizziness, slow and shallow breathing, abdominal swelling, unconsciousness and convulsions.
Skin Contact	This material can cause inflammation of the skin on contact in some persons.  The material may accentuate any pre-existing dermatitis condition  Skin contact with the material may damage the health of the individual; systemic effects may result following absorption.  Open cuts, abraded or irritated skin should not be exposed to this material  Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.  Aromatic hydrocarbons may produce sensitivity and redness of the skin. They are not likely to be absorbed into the body through the skin but branched species are more likely to.
Еуе	Direct eye contact with petroleum hydrocarbons can be painful, and the comeal epithelium may be temporarily damaged. Aromatic species can cause irritation and excessive tear secretion.  There is some evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Moderate inflammation may be expected with redness; conjunctivitis may occur with prolonged exposure.

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## Chronic

Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems.

Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body problems.

There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment.

Inhaling this product is more likely to cause a sensitisation reaction in some persons compared to the general population.

Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population.

Constant or exposure over long periods to mixed hydrocarbons may produce stupor with dizziness, weakness and visual disturbance, weight loss and anaemia, and reduced liver and kidney function. Skin exposure may result in drying and cracking and redness of the skin.

Animal testing shows that polymeric MDI can damage the nasal cavities and lungs, causing inflammation.and increased cell growth.

Women exposed to xylene in the first 3 months of pregnancy showed a slightly increased risk of miscarriage and birth defects. Evaluation of workers chronically exposed to xylene has demonstrated lack of genetic toxicity.

Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following.

Alumithane Direct to Rust Primer Aluminum - F92908	TOXICITY  Not Available	IRRITATION  Not Available			
	TOXICITY  Dermal (rabbit) LD50: >1700 mg/kg <sup>[2]</sup>	IRRITA Eve (hı	TION Iman): 200 ppm irritant		
xylene	Inhalation (rat) LC50: 4994.295 mg/l/4h <sup>[2]</sup> Eye (rabbit): 5 mg/l		bbit): 5 mg/24h SEVER	5 mg/24h SEVERE	
	Oral (rat) LD50: 4300 mg/kg <sup>[2]</sup>	Eye (rabbit): 87 mg mild  Skin (rabbit):500 mg/24h moderate		rate	
	TOXICITY		IRRITATION		
bentone SD-1	Oral (rat) LD50: >5000 mg/kg <sup>[2]</sup>		Eye: irritating *		
			Skin: non-irritating *		
	TOVICITY			IDDITATION	

# aromatic 150

TOXICITY	IRRITATION
Dermal (rabbit) LD50: >1900 mg/kg <sup>[1]</sup>	Not Available
dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	
Inhalation (rat) LC50: >0.59 mg/l/4H <sup>[2]</sup>	
Inhalation (rat) LC50: >7331.62506 mg/l/8h* <sup>[2]</sup>	
Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>	
Oral (rat) LD50: >4500 mg/kg <sup>[1]</sup>	

# MDI/ tripropylene glycol copolymer

TOXICITY	IRRITATION
Dermal (rabbit) LD50: :>7900 mg/kg <sup>[2]</sup>	Not Available
Oral (rat) LD50: >15800 mg/kg <sup>[2]</sup>	

TOXICITY	IRRITATION
Dermal (rabbit) LD50: >1900 mg/kg <sup>[1]</sup>	Eye (human): 470 ppm/15m
Dermal (rabbit) LD50: >1900 mg/kg <sup>[1]</sup>	Eye (rabbit): 500 mg/24h moderate
Dermal (rabbit) LD50: >1900 mg/kg <sup>[1]</sup>	
Dermal (rabbit) LD50: >1900 mg/kg <sup>[1]</sup>	
Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup>	
dermal (rat) LD50: 28000 mg/kg <sup>[2]</sup>	
Inhalation (rat) LC50: >2796.8052 mg/l/8H <sup>[2]</sup>	
Inhalation (rat) LC50: 3396.1206 mg/l/4H <sup>[2]</sup>	
Inhalation (rat) LC50: 61 mg/l/4H <sup>[2]</sup>	
Oral (rat) LD50: >4300 mg/kg <sup>[2]</sup>	
Oral (rat) LD50: >4500 mg/kg <sup>[1]</sup>	
Oral (rat) LD50: >4500 mg/kg <sup>[1]</sup>	
Oral (rat) LD50: >4500 mg/kg <sup>[1]</sup>	
Oral (rat) LD50: >4500 mg/kg <sup>[1]</sup>	
Oral (rat) LD50: >5000 mg/kg <sup>[1]</sup>	
Oral (rat) LD50: >5000 mg/kg <sup>[1]</sup>	

# white spirit

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	TOXICITY	IRRITATION		
Strapa 4	Not Available	Not Available		
	THE THE PROPERTY OF THE PROPER	Tion maintain		
Legend:	Value obtained from Europe ECHA Registered Substatata extracted from RTECS - Register of Toxic Effect of control of the section of the s		from manufacturer's SDS. Unless otherwise specified	
Alumithane Direct to Rust Primer Aluminum - F92908	Animal studies indicate that normal, branched and cyclic inversely proportional to the carbon chain length, with little oil, n-paraffins may be absorbed to a greater extent than it	e absorption above C30. With respect to		
XYLENE	The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.  The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.  The substance is classified by IARC as Group 3:  NOT classified by IARC as crinogenicity to humans.  Evidence of carcinogenicity may be inadequate or limited in animal testing.  Reproductive effector in rats			
BENTONE SD-1	Acute toxicity: Organoclay compounds are not expected to cause only minimal eye irritation in humans.	o be absorbed significantly by mouth or	through the skin. They are not irritating to the skin and	
MDI/ TRIPROPYLENE GLYCOL COPOLYMER	Aromatic and aliphatic diisocyanates may cause airway to	oxicity and skin sensitization. Monomers	and prepolymers exhibit similar respiratory effect.	
WHITE SPIRIT	white spirit, as CAS RN 8052-41-3			
Alumithane Direct to Rust Primer Aluminum - F92908 & AROMATIC 150 & MDI/ TRIPROPYLENE GLYCOL COPOLYMER	Asthma-like symptoms may continue for months or even y reactive airways dysfunction syndrome (RADS) which ca			
Alumithane Direct to Rust Primer Aluminum - F92908 & MDI/ TRIPROPYLENE GLYCOL COPOLYMER	Allergic reactions involving the respiratory tract are usual the allergen and period of exposure often determine the se		podies and allergens and occur rapidly. Allergic potential of	
Alumithane Direct to Rust Primer Aluminum - F92908 & MDI/ TRIPROPYLENE GLYCOL COPOLYMER	Attention should be paid to atopic diathesis, characterised	d by increased susceptibility to nasal infl	ammation, asthma and eczema.	
Alumithane Direct to Rust Primer Aluminum - F92908 & MDI/ TRIPROPYLENE GLYCOL COPOLYMER	Exogenous allergic alveolitis is induced essentially by allergen specific immune-complexes of the IgG type; cell-mediated reactions (T lymphocytes) may be involved. Such allergy is of the delayed type with onset up to four hours following exposure.			
Alumithane Direct to Rust Primer Aluminum - F92908 & MDI/ TRIPROPYLENE GLYCOL COPOLYMER	The following information refers to contact allergens as a Contact allergies quickly manifest themselves as contact			
AROMATIC 150 & WHITE SPIRIT	For petroleum: This product contains benzene, which can toxic to the nervous system. This product contains toluen		nexane, which can be metabolized to compounds which are centrations of toluene lead to hearing loss.	
Acute Toxicity	0	Carcinogenicity	·	
Skin Irritation/Corrosion	~	Reproductivity	0	
Serious Eye Damage/Irritation	<b>✓</b>	STOT - Single Exposure	~	
Respiratory or Skin sensitisation	<b>~</b>	STOT - Repeated Exposure	<b>✓</b>	
Mutagenicity	0	Aspiration Hazard	~	
	•		•	

Legend:

X − Data available but does not fill the criteria for classification
 ✓ − Data available to make classification

O - Data Not Available to make classification

# **SECTION 12 ECOLOGICAL INFORMATION**

# Toxicity

Alumithane Direct to Rust	ENDPOINT	TEST DURATION (HR)		SPECIES	VALUE		SOURCE
Primer Aluminum - F92908	Not Available	Not Available		Not Available	Not Available	•	Not Available
	ENDPOINT	TEST DURATION (UR)	SPEC	NEO		VALUE	SOURCE
	LC50	TEST DURATION (HR) 96	Fish	)IE3		2.6mg/L	2
xylene	EC50	48	Crust	acea		>3.4mg/L	2
	EC50	72	Algae	or other aquatic plants		4.6mg/L	2
	NOEC	73	Algae	or other aquatic plants		0.44mg/L	2

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hantana SD 4	ENDPOINT	TEST DURATION (HR)		SPECIES	VALUE		SOURCE
bentone SD-1	Not Available	Not Available		Not Available Not Availa		lable Not Available	
	ENDPOINT	TEST DURATION (HR)	SPEC	TES		VALUE	SOURCE
	LC50	96	Fish	JIE3		0.58mg/L	2
	EC50	48					2
	EC50	72			e or other aquatic plants		1
aromatic 150	NOEC	72	-	e or other aquatic plants		<1mg/L 0.3mg/L	2
a.oa	EC50	48	Crust			=6.14mg/L	
	EC50	72		or other aquatic plant	s	3.29mg/L	1
	EC10	72		or other aquatic plant		1.13mg/L	1
	NOEC	72		or other aquatic plant		=1mg/L	1
			7 11940	or outer aquatio plant			'
	ENDPOINT	TEST DURATION (HR)		SPECIES	VALUE		SOURCE
MDI/ tripropylene glycol copolymer	Not Available	Not Available		Not Available	Not Availa	-61-	Not Available
. ,	NOT Available	NOT Available		Not Available	NOT AVAIL	abie	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES			VALUE	SOURCE
	EC50	72	Algae	Algae or other aquatic plants		=13mg/L	1
	NOEC	72	Algae	or other aquatic plants		=0.1mg/L	1
	EC50 48		Crusta	cea		>100mg/L	1
	EC50	96	Algae or other aquatic plants =		=450mg/L	1	
	EC50	72	Algae o	or other aquatic plants		=6.5mg/L	1
	NOEC	72	Algae o	or other aquatic plants		<0.1mg/L	1
	LC50	96	Fish			0.00746mg/L	. 4
white spirit	EC50	48	Crusta	cea		0.058mg/L	4
	BCF	96	Fish	Fish		0.2mg/L	4
	NOEC	168	Crusta	cea		<=0.05mg/L	4
	LC50	96	Fish			8.8mg/L	4
	EC50	48	Crustacea		3.7mg/L	4	
	EC50	72	Algae o	or other aquatic plants		=6.5mg/L	1
	NOEC	72	Algae o	or other aquatic plants		<0.1mg/L	1
	EC50	72	Algae o	or other aquatic plants		=6.5mg/L	1
	NOEC	72	Algae o	or other aquatic plants		<0.1mg/L	1
Strapa 4	ENDPOINT	TEST DURATION (HR)		SPECIES	VALUE		SOURCE
	Not Available	Not Available		Not Available	Not Availa	able	Not Available

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment

Environmental Fate: Large, molecularly complex polycyclic aromatic hydrocarbons, or PAHs, are persistent in the environment longer than smaller PAHs.

Atmospheric Fate: PAHs are 'semi-volatile substances" which can move between the atmosphere and the Earth's surface in repeated, temperature-driven cycles of deposition and volatilization.

Polyisocyanates are not readily biodegradable. However, due to other elimination mechanisms (hydrolysis, adsorption), long retention times in water are not to be expected.

log Koc : 2.05-3.08; Koc : 25.4-204; Half-life (hr) air : 0.24-42; Half-life (hr) H2O surface water : 24-672; Half-life (hr) H2O ground : 336-8640; Half-life (hr) soil : 52-672; Henry's Pa m3 /mol : 637-879; Henry's atm m3 /mol - 7.68E-03; BOD 5 if unstated - 1.4,1%; COD - 2.56,13% ThOD - 3.125 : BCF : 23; log BCF : 1.17-2.41.

Environmental Fate: Most xylenes released to the environment will occur in the atmosphere and volatilisation is the dominant environmental fate process.

DO NOT discharge into sewer or waterways

## Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
xylene	HIGH (Half-life = 360 days)	LOW (Half-life = 1.83 days)

# Bioaccumulative potential

Ingredient	Bioaccumulation
xylene	MEDIUM (BCF = 740)
aromatic 150	LOW (BCF = 159)

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### Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

### **SECTION 13 DISPOSAL CONSIDERATIONS**

### Waste treatment methods

Recycle wherever possible or consult manufacturer for recycling options.

Consult State Land Waste Management Authority for disposal.

- Product / Packaging disposal

  DO NOT allow wash water from cleaning or process equipment to enter drains.
  - It may be necessary to collect all wash water for treatment before disposal.
     DO NOT recycle spilled material.
  - ► Consult State Land Waste Management Authority for disposal.

## **SECTION 14 TRANSPORT INFORMATION**

#### Labels Required

Marine Pollutant



Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

## **SECTION 15 REGULATORY INFORMATION**

### Safety, health and environmental regulations / legislation specific for the substance or mixture

XYLENE(1330-20-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS			
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants		
Monographs	US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air		
US - Alaska Limits for Air Contaminants	Contaminants		
US - California OEHHA/ARB - Acute Reference Exposure Levels and Target Organs (RELs)	US - Washington Permissible exposure limits of air contaminants		
US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs	US ACGIH Threshold Limit Values (TLV)		
(CRELs)	US ACGIH Threshold Limit Values (TLV) - Carcinogens		
US - California Permissible Exposure Limits for Chemical Contaminants	US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)		
US - Hawaii Air Contaminant Limits	US Clean Air Act - Hazardous Air Pollutants		
US - Idaho - Limits for Air Contaminants	US CWA (Clean Water Act) - List of Hazardous Substances		
US - Massachusetts - Right To Know Listed Chemicals	US EPA Carcinogens Listing		
US - Michigan Exposure Limits for Air Contaminants	US EPCRA Section 313 Chemical List		
US - Minnesota Permissible Exposure Limits (PELs)	US OSHA Permissible Exposure Levels (PELs) - Table Z1		
US - Oregon Permissible Exposure Limits (Z-1)	US Spacecraft Maximum Allowable Concentrations (SMACs) for Airborne Contaminants		
US - Pennsylvania - Hazardous Substance List	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory		
US - Rhode Island Hazardous Substance List	US TSCA Chemical Substance Inventory - Interim List of Active Substances		
US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants	·		
BENTONE SD-1(97952-68-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS			
US - Michigan Exposure Limits for Air Contaminants			

# AROMATIC 150(64742-95-6.) IS FOUND ON THE FOLLOWING REGULATORY LISTS

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Chemical Substance Inventory - Interim List of Active Substances

## MDI/ TRIPROPYLENE GLYCOL COPOLYMER(75880-28-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS

US List of Active Substances Exempt from the TSCA Inventory Notifications (Active-Inactive) Rule

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

WHITE SPIRIT(8052-41-3.) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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International Agency for Research on Cancer (IARC) - Agents Classified by the IARC	US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants		
Monographs	US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants		
US - Alaska Limits for Air Contaminants			
US - California Permissible Exposure Limits for Chemical Contaminants	US - Washington Permissible exposure limits of air contaminants		
US - Hawaii Air Contaminant Limits	US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants		
US - Idaho - Limits for Air Contaminants	US ACGIH Threshold Limit Values (TLV)		
US - Massachusetts - Right To Know Listed Chemicals	US ACGIH Threshold Limit Values (TLV) - Carcinogens		
US - Michigan Exposure Limits for Air Contaminants	US National Toxicology Program (NTP) 14th Report Part A Known to be Human Carcinogens		
US - Minnesota Permissible Exposure Limits (PELs)	US NIOSH Recommended Exposure Limits (RELs)		
US - Oregon Permissible Exposure Limits (Z-1)	US OSHA Permissible Exposure Levels (PELs) - Table Z1		
US - Pennsylvania - Hazardous Substance List	US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory		
US - Rhode Island Hazardous Substance List	US TSCA Chemical Substance Inventory - Interim List of Active Substances		
US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants			

## STRAPA 4(NOT AVAILABLE) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Not Applicable

# Federal Regulations

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

## SECTION 311/312 HAZARD CATEGORIES

Flammable (Gases, Aerosols, Liquids, or Solids)	No
Gas under pressure	No
Explosive	No
Self-heating	No
Pyrophoric (Liquid or Solid)	No
Pyrophoric Gas	No
Corrosive to metal	No
Oxidizer (Liquid, Solid or Gas)	No
Organic Peroxide	No
Self-reactive	No
In contact with water emits flammable gas	No
Combustible Dust	No
Carcinogenicity	Yes
Acute toxicity (any route of exposure)	No
Reproductive toxicity	No
Skin Corrosion or Irritation	Yes
Respiratory or Skin Sensitization	Yes
Serious eye damage or eye irritation	Yes
Specific target organ toxicity (single or repeated exposure)	Yes
Aspiration Hazard	Yes
Germ cell mutagenicity	No
Simple Asphyxiant	No

# US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4)

Name	Reportable Quantity in Pounds (lb)	Reportable Quantity in kg
Xylene (mixed)	100	45.4

## State Regulations

# US. CALIFORNIA PROPOSITION 65

None Reported

National Inventory	Status
Australia - AICS	N (bentone SD-1)
Canada - DSL	N (bentone SD-1)
Canada - NDSL	N (white spirit; xylene; bentone SD-1; aromatic 150; MDI/ tripropylene glycol copolymer)
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	N (bentone SD-1; MDI/ tripropylene glycol copolymer)
Korea - KECI	N (bentone SD-1; MDI/ tripropylene glycol copolymer)
New Zealand - NZIoC	Y
Philippines - PICCS	N (MDI/ tripropylene glycol copolymer)
USA - TSCA	N (bentone SD-1)
Legend:	Y = All ingredients are on the inventory  N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

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### **SECTION 16 OTHER INFORMATION**

Revision Date	06/14/2018
Initial Date	06/15/2018

#### CONTACT POINT

\*\*PLEASE NOTE THAT TITANIUM DIOXIDE IS NOT PRESENT IN CLEAR OR NEUTRAL BASES\*\*

### Other information

# Ingredients with multiple cas numbers

Name	CAS No
aromatic 150	64742-95-6., 64742-94-5

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

### **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

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