

SAFETY DATA SHEET**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name or designation of the mixture	S-1550
Registration number	-
Synonyms	None.
Product code	900-0054
Issue date	24-January-2013
Version number	01
Revision date	02-July-2013
Supersedes date	24-January-2013

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

Identified uses	Industrial Leak Sealant.
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier	Team Industrial Services, Inc.
Address	Postbus 37 4380 AA Vlissingen 3237 The Netherlands
Telephone	+31 (0) 118 48 58 00
Fax	+31 (0) 118 48 58 86
e-mail	Not available.
Contact person	Not available.

1.4. Emergency telephone number +(61)-290372994, +1 703-527-3887

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification R52/53

The full text for all R-phrases is displayed in section 16.

Classification according to Regulation (EC) No 1272/2008 as amended**Environmental hazards**

Hazardous to the aquatic environment, long-term aquatic hazard	Category 3	H412 - Harmful to aquatic life with long lasting effects.
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Hazard summary

Physical hazards	Not classified for physical hazards.
Health hazards	Not classified for health hazards. However, occupational exposure to the mixture or substance(s) may cause adverse health effects.
Environmental hazards	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Specific hazards	Mechanical processing may generate dust. Inhalation of dusts produced during cutting, grinding or sanding of this product may cause irritation of the respiratory tract.
Main symptoms	Direct contact with eyes may cause temporary irritation. Vapours may cause drowsiness and dizziness. Dermatitis.

2.2. Label elements**Label according to Regulation (EC) No. 1272/2008 as amended**

Contains:	Hydrous aluminium silicate
Hazard pictograms	None.
Signal word	None.
Hazard statements	H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention	P273 - Avoid release to the environment.
Response	Wash thoroughly after handling.
Storage	Store away from incompatible materials.
Disposal	P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information Not applicable.

2.3. Other hazards Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Aluminium flake	>1	7429-90-5 231-072-3	-	-	
Classification:	DSD: -				
	CLP: -				
Hydrous aluminium silicate	>1	- 238-878-4	-	-	
Classification:	DSD: -				
	CLP: -				
Refractories, Fibers, Aluminosilicate	5-12	142844-00-6 -	-	650-017-00-8	
Classification:	DSD: Carc. Cat. 2;R49				
	CLP: Carc. 1B;H350				
Stoddard solvent	4-8	8052-41-3 232-489-3	-	649-345-00-4	
Classification:	DSD: R10, Xn;R65, Xi;R38, R67, N;R51-53				
	CLP: Flam. Liq. 3;H226, Asp. Tox. 1;H304, Skin Irrit. 2;H315, STOT SE 3;H336, Aquatic Chronic 2;H411				

DSD: Directive 67/548/EEC.

CLP: Regulation No. 1272/2008.

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Refractories, Fibers, Aluminosilicate Note R: The classification as a carcinogen does not apply according to Directive 67/548/EEC as it can be shown that fibers have a length weighted geometric mean diameter less two standard geometric errors greater than 6 micrometers.

SECTION 4: First aid measures

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

4.1. Description of first aid measures

Inhalation	Remove victim to fresh air. Get medical attention if symptoms persist.
Skin contact	Wash area with soap and water. Get medical attention if irritation develops or persists.
Eye contact	Flush thoroughly with water. If irritation occurs, get medical assistance.
Ingestion	Rinse mouth and drink plenty of water. Only induce vomiting at the instruction of medical personnel. Get medical attention if any discomfort occurs.

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

Direct contact with eyes may cause temporary irritation. Vapours may cause drowsiness and dizziness. Dermatitis.

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

Treat symptomatically.

SECTION 5: Firefighting measures

General fire hazards	Will burn if involved in a fire. If grinding or sanding or any other process is performed to this compound will cause airborne particles and aluminum dust (maximum 2.5% of total mixture), can ignite or explode if an ignition source or spark is present, avoid creating a dust cloud.
5.1. Extinguishing media	
Suitable extinguishing media	Water spray, foam, dry powder or carbon dioxide.
Unsuitable extinguishing media	Do not use Halogenated extinguishing agent like halon or Carbon Tetrachloride.
5.2. Special hazards arising from the substance or mixture	During fire, gases hazardous to health may be formed.
5.3. Advice for firefighters	
Special protective equipment for firefighters	Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Special fire fighting procedures	Use standard firefighting procedures and consider the hazards of other involved materials. Cool material exposed to heat with water spray and remove it if no risk is involved.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures	
For non-emergency personnel	Avoid inhalation of dust. Avoid prolonged and repeated contact. See Section 8 for personal protective equipment.
For emergency responders	Use personal protection as recommended in section 8 of the SDS.
6.2. Environmental precautions	Do not discharge into drains, water courses or onto the ground.
6.3. Methods and material for containment and cleaning up	Collect and dispose of spillage as indicated in section 13 of the SDS.
6.4. Reference to other sections	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	Provide adequate ventilation. Avoid inhalation of dust. Aluminum dust (maximum 2.5% of total mixture), can ignite or explode if an ignition source or spark is present, avoid creating a dust cloud. Aluminum can react with water to slowly generate hydrogen gas and heat; this can also build pressure in confined spaces. Avoid prolonged and repeated contact. Observe good industrial hygiene practices.
7.2. Conditions for safe storage, including any incompatibilities	Store in closed original container in a dry place. Keep away from open flames. Store away from incompatible materials.
7.3. Specific end use(s)	Industrial Leak Sealant.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Austria. MAK List

Components	Type	Value	Form
Aluminium flake (CAS 7429-90-5)	MAK	5 mg/m ³	Respirable fraction.
	STEL	10 mg/m ³	Inhalable fraction.
		20 mg/m ³	Inhalable fraction.
Hydrous aluminium silicate (CAS -)	MAK	10 mg/m ³	Respirable fraction.
		0,15 mg/m ³	Respirable dust.

Belgium. Exposure Limit Values.

Components	Type	Value	Form
Aluminium flake (CAS 7429-90-5)	TWA	1 mg/m ³	Respirable fraction.
Hydrous aluminium silicate (CAS -)	TWA	0,1 mg/m ³	Respirable dust.
Stoddard solvent (CAS 8052-41-3)	TWA	533 mg/m ³	
		100 ppm	

Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

Components	Type	Value	Form
Aluminium flake (CAS 7429-90-5)	TWA	2 mg/m ³	
		10 mg/m ³	Dust.
Hydrous aluminium silicate (CAS -)	TWA	1,5 mg/m ³	Respirable fraction.
		0,07 mg/m ³	Respirable fraction.

Czech Republic. OELs. Government Decree 361

Components	Type	Value	Form
Aluminium flake (CAS 7429-90-5)	TWA	10 mg/m ³	Dust.
Hydrous aluminium silicate (CAS -)	TWA	0,1 mg/m ³	Respirable dust.
Refractories, Fibers, Aluminosilicate (CAS 142844-00-6)	TWA	0,3 fibers/cm ³	Respirable fibers.

Denmark

Components	Type	Value	Form
Aluminium flake (CAS 7429-90-5)	TLV	5 mg/m ³	Total powder and dust.
		2 mg/m ³	Respirable powder and dust.

Denmark. Exposure Limit Values

Components	Type	Value	Form
Aluminium flake (CAS 7429-90-5)	TLV	5 mg/m ³	Fume.
		5 mg/m ³	Dust and fume.
		2 mg/m ³	Respirable dust and/or fume.
Hydrous aluminium silicate (CAS -)	TLV	0,3 mg/m ³	Total
		0,1 mg/m ³	Respirable.
Refractories, Fibers, Aluminosilicate (CAS 142844-00-6)	TLV	1 fibers/cm ³	Fiber.
Stoddard solvent (CAS 8052-41-3)	TLV	145 mg/m ³	
		25 ppm	

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)

Components	Type	Value	Form
Aluminium flake (CAS 7429-90-5)	TWA	4 mg/m ³	Respirable dust.
		10 mg/m ³	Total dust.
Hydrous aluminium silicate (CAS -)	TWA	0,1 mg/m ³	Respirable dust.
Stoddard solvent (CAS 8052-41-3)	STEL	600 mg/m ³	
		100 ppm	
		300 mg/m ³	
	TWA	50 ppm	

Finland. Workplace Exposure Limits

Components	Type	Value	Form
Aluminium flake (CAS 7429-90-5)	TWA	1,5 mg/m ³	Welding fume.
Hydrous aluminium silicate (CAS -)	TWA	0,05 mg/m ³	Respirable.
Refractories, Fibers, Aluminosilicate (CAS 142844-00-6)	TWA	0,2 fibers/cm ³	Respirable.

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

Components	Type	Value	Form
Aluminium flake (CAS 7429-90-5)	VME	5 mg/m ³	Dust.
		5 mg/m ³	Welding fume.
		10 mg/m ³	
Hydrous aluminium silicate (CAS -)	VME	0,1 mg/m ³	Respirable fraction.

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value	Form
Aluminium flake (CAS 7429-90-5)	TWA	4 mg/m ³	Inhalable dust.
		1,5 mg/m ³	Respirable dust.

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Components	Type	Value	Form
Aluminium flake (CAS 7429-90-5)	AGW	3 mg/m ³	Respirable fraction.
		10 mg/m ³	Inhalable fraction.

Greece. OELs (Decree No. 90/1999, as amended)

Components	Type	Value	Form
Aluminium flake (CAS 7429-90-5)	TWA	5 mg/m ³	Inhalable
		10 mg/m ³	Pyrophoric powder.
		10 mg/m ³	Respirable.
		10 mg/m ³	Welding fume.
Stoddard solvent (CAS 8052-41-3)	STEL	720 mg/m ³	
		125 ppm	
		575 mg/m ³	
	TWA	100 ppm	

Hungary. OELs. Joint Decree on Chemical Safety of Workplaces

Components	Type	Value	Form
Aluminium flake (CAS 7429-90-5)	TWA	6 mg/m ³	Respirable.
Hydrous aluminium silicate (CAS -)	TWA	0,15 mg/m ³	Respirable.

Iceland. OELs. Regulation 154/1999 on occupational exposure limits

Components	Type	Value	Form
Aluminium flake (CAS 7429-90-5)	TWA	5 mg/m ³	Fume.
		10 mg/m ³	Dust.
Hydrous aluminium silicate (CAS -)	TWA	0,3 mg/m ³	Total dust.
		0,1 mg/m ³	Respirable dust.
Refractories, Fibers, Aluminosilicate (CAS 142844-00-6)	TWA	1 fibers/cm ³	Fiber.
Stoddard solvent (CAS 8052-41-3)	TWA	145 mg/m ³	
		25 ppm	

Ireland. Occupational Exposure Limits

Components	Type	Value	Form
Aluminium flake (CAS 7429-90-5)	TWA	1 ppm	Respirable dust.
Hydrous aluminium silicate (CAS -)	TWA	0,1 mg/m ³	Respirable dust.
Stoddard solvent (CAS 8052-41-3)	TWA	573 mg/m ³	
		100 ppm	

Italy. OELs

Components	Type	Value	Form
Aluminium flake (CAS 7429-90-5)	TWA	1 mg/m ³	Respirable fraction.
Hydrous aluminium silicate (CAS -)	TWA	0,025 mg/m ³	Respirable fraction.
Refractories, Fibers, Aluminosilicate (CAS 142844-00-6)	TWA	0,2 fibers/cm ³	Fiber.
Stoddard solvent (CAS 8052-41-3)	TWA	100 ppm	

Latvia. OELs. Occupational exposure limit values of chemical substances in work environment

Components	Type	Value	
Aluminium flake (CAS 7429-90-5)	TWA	2 mg/m ³	
Refractories, Fibers, Aluminosilicate (CAS 142844-00-6)	TWA	2 mg/m ³	

Lithuania. OELs. Limit Values for Chemical Substances, General Requirements (Hygiene Norm HN 23:2007)

Components	Type	Value	Form
Aluminium flake (CAS 7429-90-5)	TWA	5 mg/m ³	Inhalable fraction.
		2 mg/m ³	Respirable fraction.
Hydrous aluminium silicate (CAS -)	TWA	0,1 mg/m ³	Respirable fraction.

Netherlands. OELs (binding)

Components	Type	Value	Form
Hydrous aluminium silicate (CAS -)	TWA	0,075 mg/m ³	Respirable dust.
Refractories, Fibers, Aluminosilicate (CAS 142844-00-6)	TWA	0,5 fibers/cc	Respirable fibers.

Norway. Administrative Norms for Contaminants in the Workplace

Components	Type	Value	Form
Aluminium flake (CAS 7429-90-5)	TLV	5 mg/m ³	Welding fume.
		5 mg/m ³	Pyrophoric powder.
Hydrous aluminium silicate (CAS -)	TLV	0,3 mg/m ³	Total dust.
		0,1 mg/m ³	Respirable dust.
Refractories, Fibers, Aluminosilicate (CAS 142844-00-6)	TLV	0,1 fibers/cm ³	Fiber.

Poland. MACs. Minister of Labour and Social Policy Regarding Maximum Allowable Concentrations and Intensities in Working Environment

Components	Type	Value	Form
Aluminium flake (CAS 7429-90-5)	TWA	2,5 mg/m ³	Fume, total dust.
		1,2 mg/m ³	Respirable dust and/or fume.
Hydrous aluminium silicate (CAS -)	TWA	2 mg/m ³	Total dust.
		0,3 mg/m ³	Respirable dust.
Stoddard solvent (CAS 8052-41-3)	STEL	900 mg/m ³	
	TWA	300 mg/m ³	

Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)

Components	Type	Value	Form
Aluminium flake (CAS 7429-90-5)	TWA	10 mg/m ³	Dust.

Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)

Components	Type	Value	Form
Hydrous aluminium silicate (CAS -)	TWA	0,025 mg/m ³	Respirable fraction.
Stoddard solvent (CAS 8052-41-3)	TWA	100 ppm	

Romania. OELs. Protection of workers from exposure to chemical agents at the workplace

Components	Type	Value	Form
Aluminium flake (CAS 7429-90-5)	STEL	3 mg/m ³	Fume.
	TWA	10 mg/m ³	Dust.
		3 mg/m ³	Dust.
Stoddard solvent (CAS 8052-41-3)	STEL	1 mg/m ³	Fume.
		1000 mg/m ³	
	TWA	700 mg/m ³	

Slovakia. OELs. Decree of the government of the Slovak Republic concerning protection of health in work with chemical agents

Components	Type	Value	Form
Aluminium flake (CAS 7429-90-5)	TWA	4 mg/m ³	Inhalable fraction.
		1,5 mg/m ³	Respirable fraction.
Hydrous aluminium silicate (CAS -)	TWA	0,1 mg/m ³	
Stoddard solvent (CAS 8052-41-3)	TWA	300 mg/m ³	
		50 ppm	

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

Components	Type	Value	Form
Hydrous aluminium silicate (CAS -)	TWA	0,15 mg/m ³	Respirable fraction.

Spain. Occupational Exposure Limits

Components	Type	Value	Form
Aluminium flake (CAS 7429-90-5)	TWA	5 mg/m ³	Welding fume.
		10 mg/m ³	Dust.
Hydrous aluminium silicate (CAS -)	TWA	0,1 mg/m ³	Respirable fraction.

Sweden. Occupational Exposure Limit Values

Components	Type	Value	Form
Aluminium flake (CAS 7429-90-5)	TWA	5 mg/m ³	Total dust.
		2 mg/m ³	Respirable dust.
Hydrous aluminium silicate (CAS -)	TWA	0,1 mg/m ³	Respirable dust.
Stoddard solvent (CAS 8052-41-3)	STEL	300 mg/m ³	
	TWA	50 ppm	
		150 mg/m ³	
		25 ppm	

Switzerland. SUVA Grenzwerte am Arbeitsplatz

Components	Type	Value	Form
Aluminium flake (CAS 7429-90-5)	TWA	3 mg/m ³	Respirable dust.
Hydrous aluminium silicate (CAS -)	TWA	0,15 mg/m ³	Respirable dust.

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value	Form
Aluminium flake (CAS 7429-90-5)	TWA	4 mg/m ³	Respirable dust.
Hydrous aluminium silicate (CAS -)	TWA	10 mg/m ³ 0,1 mg/m ³	Inhalable dust. Respirable.

Biological limit values

Germany. TRGS 903, BAT List (Biological Limit Values)

Components	Value	Determinant	Specimen	Sampling time
Aluminium flake (CAS 7429-90-5)	200 micrograms/liter	Aluminium	Urine	*

* - For sampling details, please see the source document.

Hungary. Chemical Safety at Workplace Ordinance Joint Decree No. 25/2000 (Annex 2): Permissible limit values of biological exposure (effect) indices

Components	Value	Determinant	Specimen	Sampling time
Stoddard solvent (CAS 8052-41-3)	25 %	red blood cell or total blood acetylcholinest erase activity (EC. 3.1.1.7.)	Reduction from individual baseline activity in red blood cells	*

* - For sampling details, please see the source document.

Slovakia. BLVs (Biological Limit Value). Regulation no. 355/2006 concerning protection of workers exposed to chemical agents, Annex 2

Components	Value	Determinant	Specimen	Sampling time
Aluminium flake (CAS 7429-90-5)	60 µg/g	Aluminium	Creatinine in urine	*

* - For sampling details, please see the source document.

Switzerland. BAT-Werte (Biological Limit Values in the Workplace as per SUVA)

Components	Value	Specimen	Sampling time
Aluminium flake (CAS 7429-90-5)	60 µg/g	Creatinine in urine	*

* - For sampling details, please see the source document.

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no-effect level (DNEL) Not available.

Predicted no effect concentrations (PNECs) Not available.

8.2. Exposure controls

Appropriate engineering controls Provide adequate ventilation. Observe occupational exposure limits and minimise the risk of inhalation of dust.

Individual protection measures, such as personal protective equipment

General information Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection Risk of contact: Wear approved safety glasses or goggles.

Skin protection

- Hand protection Wear protective gloves.

- Other Where skin contact is likely, wear chemical impervious gloves. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment with gas filter (type A2). During dust-raising work: Use respiratory equipment with particle filter, type P1.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Environmental exposure controls Environmental manager must be informed of all major releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Gray putty-like compound.
Physical state	Liquid.
Form	Thick paste.
Colour	Grey.
Odour	Solvent -like.
Odour threshold	Not available.
pH	5,7
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	107,8 °C (226,0 °F) Cleveland open cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	< 1,5 mm Hg @ 20 °C (Solvent)
Vapour density	Not available.
Relative density	1,52 (compressed, uncured) (H ₂ O =1)
Solubility(ies)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidizing properties	Not available.
9.2. Other information	
VOC (Weight %)	< 6 % by weight

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	Will not occur.
10.4. Conditions to avoid	Excessive heat.
10.5. Incompatible materials	Strong Oxidizers, Strong Acids, Mineral Acids, Alkalies, Hydrocarbons. Aluminum can react with water to slowly gas and heat; this can also build pressure in confined spaces. Keep containers closed, avoid contamination with water.
10.6. Hazardous decomposition products	CO, CO ₂ , Various hydrocarbon gases. Hydrogen sulfide. Sulfur dioxide. Aluminum oxides.

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects. Crystalline silica poses a health hazard when it is inhaled as a dust. Normal use of product does not generate silica or other dust.

Information on likely routes of exposure

Ingestion	May cause discomfort if swallowed.
Inhalation	Inhalation of dusts produced during cutting, grinding or sanding of this product may cause irritation of the respiratory tract.
Skin contact	Prolonged skin contact may cause irritation.
Eye contact	May cause eye irritation on direct contact.
Symptoms	Direct contact with eyes may cause temporary irritation. Vapours may cause drowsiness and dizziness. Dermatitis.

11.1. Information on toxicological effects

Acute toxicity May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

Components	Species	Test results
Stoddard solvent (CAS 8052-41-3)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 5,2 mg/l, 4 hours
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg

Skin corrosion/irritation Prolonged or repeated skin contact may cause irritation.

Serious eye damage/eye irritation May cause eye irritation on direct contact.

Respiratory sensitisation Not available.

Skin sensitisation Prolonged skin contact may cause dermatitis.

Germ cell mutagenicity Not available.

Carcinogenicity The carcinogenic effect is caused by inhalation of dust particles. Due to the form of the product, exposure to the potentially carcinogenic components is not expected. Crystalline silica: Overexposure to the respirable dust of crystalline silica (quartz or cristobalite, less than or equal to 5 microns in size) may lead to silicosis in humans, which is a progressive and irreversible lung disease.

IARC Monographs. Overall Evaluation of Carcinogenicity

Hydrous aluminium silicate (CAS -)	1 Carcinogenic to humans.
Refractories, Fibers, Aluminosilicate (CAS 142844-00-6)	2B Possibly carcinogenic to humans.

Reproductive toxicity Not available.

Specific target organ toxicity - single exposure Not available.

Specific target organ toxicity - repeated exposure Not available.

Aspiration hazard Not available.

Mixture versus substance information Not available.

Other information May aggravate pre-existing disorders of the skin. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases. Crystalline silica: Overexposure to the respirable dust of crystalline silica (quartz or cristobalite, less than or equal to 5 microns in size) may lead to silicosis in humans, which is a progressive and irreversible lung disease.

SECTION 12: Ecological information

12.1. Toxicity Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability No data available.

12.3. Bioaccumulative potential No data available for this product.

Partition coefficient n-octanol/water (log Kow)

Stoddard solvent (CAS 8052-41-3)	3,16 - 7,15
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Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil No data available.

Mobility in general The product is insoluble in water.

12.5. Results of PBT and vPvB assessment Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations.

Contaminated packaging Dispose product packaging in accordance with local authority requirements taking into account characteristics of the packaging material.

EU waste code 08 04 10

The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Disposal methods/information Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal. Recover and reclaim or recycle, if practical.

SECTION 14: Transport information

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ADN

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA

Refractories, Fibers, Aluminosilicate (CAS 142844-00-6)

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Refractories, Fibers, Aluminosilicate (CAS 142844-00-6)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not regulated.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Stoddard solvent (CAS 8052-41-3)

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Not regulated.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Refractories, Fibers, Aluminosilicate (CAS 142844-00-6)

Stoddard solvent (CAS 8052-41-3)

Directive 94/33/EC on the protection of young people at work

Refractories, Fibers, Aluminosilicate (CAS 142844-00-6)

Stoddard solvent (CAS 8052-41-3)

Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended and respective national laws implementing EC directives. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006 as amended.

National regulations

Follow national regulation for work with chemical agents.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

DNEL: Derived No-Effect Level.
PNEC: Predicted No-Effect Concentration. PBT: Persistent, bioaccumulative and toxic. vPvB: Very Persistent and very Bioaccumulative. DSD: Directive 67/548/EEC.
CLP: Regulation No. 1272/2008.

LD50: Lethal Dose, 50%.
LC50: Lethal Concentration, 50%.

References

Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any statements or R-phrases and H-statements under Sections 2 to 15

R10 Flammable.
R38 Irritating to skin.
R49 May cause cancer by inhalation.
R51 Toxic to aquatic organisms.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53 May cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R67 Vapours may cause drowsiness and dizziness.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H350 May cause cancer.
H411 Toxic to aquatic life with long lasting effects.

Training information

Follow training instructions when handling this material.

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.