

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue:01/06/17 Revision date:01/06/17 Version: 4.1

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

Product identifier

Product form : Mixture Product name : Sentinel Seal X

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

1.2.1. Relevant identified uses

Main use category : Joint and leak sealer for central heating systems

1.2.2. Uses advised against

No additional information available

Details of the supplier of the safety data sheet

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SECTION 2: Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Irrit. 2 H315

Full text of hazard classes and H-statements : see section 16

Label elements 2.2.

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP) : Warning

Hazard statements (CLP) : H315 - Causes skin irritation

Precautionary statements (CLP) P264 - Wash hands thoroughly after handling

P280 - Wear protective gloves

P302+P352 - IF ON SKIN: Wash with plenty of soap and water P332+P313 - If skin irritation occurs: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse

: EUH208 - Contains 4,5-Dichloro-2-octyl-2H-isothiazol-3-one. May produce an allergic reaction **EUH-statements**

2.3. Other hazards

Other hazards not contributing to the classification

: Ingestion may cause irritation of the gastrointestinal tract. May cause eye irritation. Product

generates acetic acid during curing process.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Middle Hydrotreated Distillates	(CAS No) 64742-46-7 (EC No.) 265-148-2 (EC index No.) 649-221-00-X	20 - 50	Asp. Tox. 1, H304
Amorphous Fumed Silica	(CAS No) 112945-52-5 (EC No.) 601-216-3	3 - 10	Not classified
Octamethylcyclotetrasiloxane	(CAS No) 556-67-2 (EC No.) 209-136-7 (EC index No.) 014-018-00-1 (REACH-no) 01-2119529238-36	0.1 - 1	Flam. Liq. 3, H226 Repr. 2, H361f Aquatic Chronic 4, H413
4,5-Dichloro-2-octyl-2H-isothiazol-3-one	(CAS No.) 64359-81-5 (EC No.) 264-843-8	< 0.1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 2 (Inhalation), H330 Skin Corr. 1A, H314 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

SECTION 4: First aid measures

First-aid measures after eye contact

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation : Remove to fresh air, keep the patient warm and at rest. If symptoms develop obtain medical

attention.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If symptoms develop, obtain medical attention.

: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If symptoms develop, obtain medical attention.

First-aid measures after ingestion:

Do NOT induce vomiting. Rinse mouth. Give 100 - 200 ml of water to drink. If symptoms

: Do NOT induce vomiting. Rinse mouth. Give 100 - 200 ml of water to drink. If symptoms develop, obtain medical attention.

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

Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after eye contact : May cause eye irritation.

Symptoms/injuries upon intravenous : Ingestion may cause irritation of the gastrointestinal tract.

administration

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of : Carbon dioxide. Carbon monoxide. Formaldehyde.

fire

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Avoid fire-fighting water entering the environment.

Protection during firefighting : As in any fire, wear self-contained breathing apparatus and full protective gear.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Use chemically protective clothing.

Emergency procedures : Ensure adequate ventilation. Avoid contact with skin and eyes. Avoid inhalation of vapours.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

6.4. Reference to other sections

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation

of vapour. Avoid contact with skin, eyes and clothing. Avoid inhalation of vapours. Wear recommended personal protective equipment. Take off contaminated clothing and wash before

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool well ventilated place. Keep container closed when not in use. Avoid ignition sources. Protect material from direct sunlight.

7.3. Specific end use(s)

Joint and leak sealer for central heating systems.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls : Provide adequate ventilation, including appropriate local extraction, to ensure that occupational

exposure limits are not exceeded.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves. Standard EN 374 - Protective gloves against chemicals.

Eye protection : Chemical goggles or safety glasses. Standard EN 166 - Personal eye-protection.

Skin and body protection : Use chemically protective clothing

Respiratory protection : Not required for normal conditions of use. In case of insufficient ventilation, wear suitable

respiratory equipment

Thermal hazard protection : Not required for normal conditions of use.

Environmental exposure controls : Avoid release to the environment.

Other information : Do not eat, drink or smoke during use. Handle in accordance with good industrial hygiene and

safety procedures.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Paste.

Colour : Various colours.

Odour : vinegar odour.

Odour threshold : No data available
pH : No data available

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Relative evaporation rate (butylacetate=1) : No data available Melting point No data available No data available Freezing point : No data available Boiling point Flash point : No data available Auto-ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) : Not applicable Vapour pressure : No data available 0.97 - 1 Relative vapour density at 20 °C

Relative density : No data available

Solubility : Insoluble.

Log Pow : No data available Viscosity, kinematic No data available Viscosity, dynamic No data available Explosive properties : Not explosive. Oxidising properties : Not applicable. **Explosive limits** No data available

Other information

No additional information available

SECTION 10: Stability and reactivity

Reactivity 10.1.

None known.

Chemical stability 10.2.

Stable under normal conditions.

Possibility of hazardous reactions 10.3.

No information available.

10.4. **Conditions to avoid**

Extremely high or low temperatures. Ignition sources.

10.5. Incompatible materials

Oxidizing agents.

Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Formaldehyde.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Octamethylcyclotetrasiloxane (556-67-2)	
LD50 oral rat	4800 mg/kg (OECD 401 method)
LD50 dermal rat	> 2400 mg/kg (OECD 402 method)
LC50 inhalation rat (mg/l)	36 mg/l/4h (OECD 403 method)

Skin corrosion/irritation : Causes skin irritation. moderate skin irritation

(OECD Guideline 404)

Serious eye damage/irritation : Not classified Respiratory or skin sensitisation Not classified

Contains: 4,5-Dichloro-2-octyl-2H-isothiazol-3-one. May produce an allergic reaction.

Germ cell mutagenicity Not classified

Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified

Based on available data, the classification criteria are not met

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Specific target organ toxicity (single exposure) : Not classified

Based on available data, the classification criteria are not met

Specific target organ toxicity (repeated

exposure)

: Not classified

Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Based on available data, the classification criteria are not met

Potential adverse human health effects and

symptoms

: Causes skin irritation. May cause an allergic skin reaction. May cause eye irritation. Ingestion

may cause irritation of the gastrointestinal tract.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

Sentinel Seal x	
Persistence and degradability	No information available.

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

Sentinel Seal x		
	Ecology - soil	No information available.

12.5. Results of PBT and vPvB assessment

Sentinel Seal x

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Additional information : Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Empty containers

should be taken to an approved waste handling site for recycling or disposal.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Proper Shipping Name (ADN) : Not applicable
Proper Shipping Name (RID) : Not applicable

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

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Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

14.4. Packing group

Packing group : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : Not classified

14.6. Special precautions for user

Special transport precautions : No special precautions required

- Overland transport

No data available

- Transport by sea

No data available

- Air transport

No data available

- Inland waterway transport

No data available

- Rail transport

No data available

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

15.1.1. EU-Regulations

Authorisations and/or restrictions on use (Annex XVII):

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	Middle Hydrotreated Distillates - Octamethylcyclotetrasiloxane
3.a. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	Octamethylcyclotetrasiloxane
3.b. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Sentinel Seal x - Middle Hydrotreated Distillates
3.c. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	Octamethylcyclotetrasiloxane

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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SECTION 16: Other information

Indication of changes:

Classification (CLP). Composition/information on ingredients.

Abbreviations and acronyms:

ADR (Accord européen relatif au transport international des marchandises Dangereuses par Route)
ATE (Acute Toxicity Estimate)
CAS (Chemical Abstracts Service) number
CLP (Classification, Labeling and Packaging)
DNEL (Derived No effect Limit)
EC (European Community)
EC50 (Effective Concentration 50%)
EN (European Norm)
IARC (International Agency for Research on Cancer)
IATA (International Air Transport Association)
IBC (Intermediate Bulk Container)
IMDG (International Maritime Dangerous Goods Code)
IMO (International Maritime Organisation)
LC50 (Lethal Concentration 50%)
LD50 (Lethal Dose 50%)
MAC (Maximal Allowed Concentration)
OECD (Organisation for Economic Co-operation and Development)
PBT (Persistent, bioaccumulative and toxic)
PNEC (predicted no effect concentration)
REACH (Registration, Evaluation and Authorisation of CHemicals)
RID (Règlement concernant le transport international ferroviaire de marchandises)
STEL (Short Term Exposure Limit)
TWA (Time Weighted Average)
UNxxxx (Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods)
vPvB (very persistent and very bioaccumulative)

Data sources : REGULATION (EC) No 1272/2008

Other information : None.

Full text of R-, H- and EUH-statements:

Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
Asp. Tox. 1	Aspiration hazard, Category 1
Flam. Liq. 3	Flammable liquids, Category 3
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction

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H330	Fatal if inhaled
H335	May cause respiratory irritation
H361f	Suspected of damaging fertility
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H413	May cause long lasting harmful effects to aquatic life
EUH208	Contains . May produce an allergic reaction

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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