

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 2015/830  $\,$ 

X-23-7783D

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

#### 1.1 Product identifier

Trade name: X-23-7783D

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

General use: Thermal interface seals.

For industrial purposes only.

#### 1.3 Details of the supplier of the safety data sheet

Company name: Shin-Etsu Silicones Europe B.V.

Street/POB-No.: Bolderweg 32
Postal Code, city: 1332 AV Almere

Netherlands

Telephone: +31 36-5493-170 Telefax: +31 36-5326-459

Dept. responsible for information:

QA department,

Telephone: +31 36-5493-179, Email: msds info@shinetsu.nl

#### 1.4 Emergency telephone number

Telephone: +31 36-5493-170

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification according to EC regulation 1272/2008 (CLP)

Aquatic Chronic 2; H411 Toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

#### Labelling (CLP)



Hazard statements: H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents/container to hazardous or special waste collection point.

Special labelling

Text for labelling: Contains Aluminium powder and zinc oxide.

#### 2.3 Other hazards

No risks worthy of mention.



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### **SECTION 3: Composition / information on ingredients**

3.1 Substances: not applicable

#### 3.2 Mixtures

Chemical characterisation: Organopolysiloxane mixture, anorganic materials

Hazardous ingredients:

Ingredient	Designation	Content	Classification
EC No. 231-072-3 CAS 7429-90-5	Aluminium powder (pyrophoric)	50 - 75 %	Pyr. Sol. 1; H250. Water-react. 2; H261.
EC No. 215-222-5 CAS 1314-13-2	Zinc oxide	< 25 %	Aquatic Acute 1; H400. Aquatic Chronic 1; H410.
EC No. 271-370-0 CAS 68551-20-2	Alkanes, C13 - 16- iso	< 5 %	Asp. Tox. 1; H304.

Full text of H- and EUH-statements: see section 16.

Additional information: Not fulfilling criteria for hazard class "Flammable Solids".

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

In case of inhalation: Provide fresh air. Seek medical treatment in case of troubles.

Following skin contact: Thoroughly wash skin with soap and water. Change contaminated clothing. In case of skin

irritation, consult a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids

apart. In case of eye irritation consult an ophthalmologist.

After swallowing: Never give anything by mouth to an unconscious person. Rinse mouth and seek medical

attention immediately. Seek medical attention.

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

In case of inhalation: Inhalation of dust may cause irritation of the respiratory system. After eye contact: Dust contact with the eyes can lead to mechanical irritation.

#### 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:

Special extinguishing powder for metals. Cover spilled material with dry sand or cement.

Extinguishing media which must not be used for safety reasons:

Water, carbon dioxide, foam, extinguishing powder.

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#### 5.2 Special hazards arising from the substance or mixture

Combustible. Emits toxic fumes under fire conditions.

In case of fire may be liberated: Metal oxide smoke, silicon dioxide, formaldehyde,

carbon monoxide and carbon dioxide.

#### 5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained breathing apparatus. Wear protective equipment.

Additional information: Hazchem-Code: 2Z

Move undamaged containers from immediate hazard area if it can be done safely. Do not

breathe fumes. Do not allow fire water to penetrate into surface or ground water.

#### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Eliminate all ignition sources if safe to do so. Avoid contact with skin, eyes, and clothing. Avoid generation of dust. Do not breathe dust. Wear protective equipment. Provide adequate ventilation.

#### 6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains.

#### 6.3 Methods and material for containment and cleaning up

Plug leak if safely possible.

Avoid generation of dust. Protect from moisture contamination.

Collect dry and place in appropriate containers for disposal. Subsequent cleaning.

Additional information: Use only non-sparking tools. Take precautionary measures against static discharges.

#### 6.4 Reference to other sections

Refer additionally to section 8 and 13.

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation. Avoid contact with skin, eyes, and clothing. Avoid generation of dust. Do not breathe dust. Wear protective equipment. When using do not eat, drink or

smoke.

Precautions against fire and explosion:

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges. Use explosion-proof equipment and non-sparking tools/utensils.

#### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed in a cool place.

Keep container dry. Protect from humidity and water.

Keep away from heat sources, sparks and open flames.

Store containers in upright position. Do not drop, drag or bang the container.

Do not re-use the empty container. Do not weld.

Hints on joint storage: Keep away from food, drink and animal feedingstuffs.

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Storage class: 11 = Combustible solids

7.3 Specific end use(s)

No information available.

### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Туре	Limit value
7429-90-5	Aluminium powder (pyrophoric)	Great Britain: WEL-TWA	10 mg/m³ (inhalable fraction)
		Great Britain: WEL-TWA Ireland: 8 hours	4 mg/m³ (respirable fraction) 1 mg/m³ (respirable fraction)
1314-13-2	Zinc oxide	Great Britain: WEL-STEL Great Britain: WEL-TWA Ireland: 15 minutes Ireland: 8 hours	10 mg/m³ Smoke 5 mg/m³ Smoke 10 mg/m³ (respirable fraction) 2 mg/m³ (respirable fraction)

Additional information: Aluminium powder, zinc oxide are embedded in the product and therefore no dust is

present.

#### 8.2 Exposure controls

Provide adequate ventilation. Dust should be exhausted directly at the point of origin.

#### Personal protection equipment

#### Occupational exposure controls

Respiratory protection: With the formation of dust, use a dust mask.

Hand protection: Protective gloves according to EN 374.

Glove material: Plastic or rubber.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to EN 166.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:

Eliminate all ignition sources if safe to do so.

Avoid contact with skin, eyes, and clothing. Do not breathe dust.

Eye wash facility must be provided. Wash hands before breaks and after work. When using do not eat, drink or smoke.

## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Appearance: Form: solid (grease)

Colour: grey

Odour: weak

Odour threshold: no data available



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no data available pH value: no data available Melting point/freezing point: no data available Initial boiling point and boiling range: Flash point/flash point range: > 100 °C (c.c.) Evaporation rate: no data available Flammability: no data available Explosion limits: no data available Vapour pressure: at 25 °C: negligible no data available Vapour density: at 25 °C: 2.4 g/cm3 Density:

Water solubility: insoluble

Partition coefficient: n-octanol/water:

Auto-ignition temperature:

Thermal decomposition:

Viscosity, dynamic:

Explosive properties:

Oxidizing characteristics:

no data available
no data available
no data available
no data available

#### 9.2 Other information

Additional information: Evaporation rate (butyl acetate): < 1

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

refer to 10.3

#### 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

No dangerous reactions with proper and specified storage and handling.

#### 10.4 Conditions to avoid

Avoid generation of dust. Excessive heating Protect from moisture contamination.

#### 10.5 Incompatible materials

no data available

#### 10.6 Hazardous decomposition products

Thermal breakdown of this product during fire or very high heat condition may evolve the following hazardous decomposition products: Metal oxide smoke, silicon dioxide, traces of incompletely burned carbon compounds, formaldehyde, carbon monoxide and carbon dioxide.

Thermal decomposition: no data available



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### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Toxicological effects: Acute toxicity (oral): Lack of data.

Acute toxicity (dermal): Lack of data. Acute toxicity (inhalative): Lack of data. Skin corrosion/irritation: Lack of data. Eye damage/irritation: Lack of data.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Lack of data.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data. Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

Other information: With correct and proper handling/application, no cases health hazards are known.

**Symptoms** 

In case of inhalation: Inhalation of dust may cause irritation of the respiratory system. After eye contact: Dust contact with the eyes can lead to mechanical irritation.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Aquatic toxicity: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

#### 12.2. Persistence and degradability

Further details: no data available

#### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:

no data available

#### 12.4 Mobility in soil

no data available

#### 12.5 Results of PBT and vPvB assessment

no data available

#### 12.6 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.



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### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

**Product** 

Waste key number: 08 04 09\* = Waste adhesives and sealants containing organic solvents or other

dangerous substances.

MFSU = manufacture, formulation, supply and use \* = Evidence for disposal must be provided.

Recommendation: Special waste. Dispose of waste according to applicable legislation.

**Contaminated packaging** 

Waste key number: 15 01 02 = Plastic packaging or 150104 = Metallic packaging

Recommendation: Dispose of waste according to applicable legislation.

Do not re-use the empty container.

## **SECTION 14: Transport information**

#### 14.1 UN number

ADR/RID, IMDG, IATA-DGR:

**UN 3077** 

#### 14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

UN 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc oxide)

#### 14.3 Transport hazard class(es)

ADR/RID: Class 9, Code: M7
IMDG: Class 9, Subrisk -

IATA-DGR: Class 9

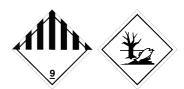
#### 14.4 Packing group

ADR/RID, IMDG, IATA-DGR:

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#### 14.5 Environmental hazards

Marine pollutant: Yes



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#### 14.6 Special precautions for user

#### Land transport (ADR/RID)

Warning board: ADR/RID: Kemmler-number 90, UN number UN 3077

Hazard label:

Special provisions: 274 335 375 601

Limited quantities: 5 kg EQ: E1

Contaminated packaging - Instructions: P002 IBC08 LP02 R001

Contaminated packaging - Special provisions:

PP12 B3

Special provisions for packing together: MP10

Portable tanks - Instructions: T1 BK1 BK2

Portable tanks - Special provisions: TP33

Tank coding: SGAV LGBV

Tunnel restriction code:

#### Sea transport (IMDG)

EmS: F-A, S-F

Special provisions: 274, 335, 966, 967, 969

Limited quantities: 5 kg EQ: 5 tq

Contaminated packaging - Instructions: P002, LP02
Contaminated packaging - Provisions: PP12
IBC - Instructions: IBC08
IBC - Provisions: B3

Tank instructions - IMO:

Tank instructions - UN: T1, BK2, BK2, BK3

Tank instructions - Provisions: TP33

Stowage and handling: Category A. SW23

Properties and observations:

#### Air transport (IATA)

Hazard: Miscellaneous

EQ: F1

Passenger Ltd.Qty.: Pack.Instr. Y956 - Max. Net Qty/Pkg. 30 kg G
Passenger: Pack.Instr. 956 - Max. Net Qty/Pkg. 400 kg
Cargo: Pack.Instr. 956 - Max. Net Qty/Pkg. 400 kg

Special Provisioning: A97 A158 A179 A197

ERG: 9L

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

no data available

## **SECTION 15: Regulatory information**

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

#### National regulations - Great Britain

Hazchem-Code: 2Z

No data available



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#### 15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

#### **SECTION 16: Other information**

#### **Further information**

Wording of the H-phrases under paragraph 2 and 3:

H250 = Catches fire spontaneously if exposed to air. H261 = In contact with water releases flammable gases. H304 = May be fatal if swallowed and enters airways.

H400 = Very toxic to aquatic life.

H410 = Very toxic to aquatic life with long lasting effects. H411 = Toxic to aquatic life with long lasting effects.

Reason of change: General revision (Regulation (EU) No 2015/830)

27/7/2006 Date of first version:

#### Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.