

provisions, need to be considered in the sheet or substances for which the highest workplace concentrations were set.

SECTION 4: First aid measures.

4.1. Description of first aid measures

In case of exposure via respiratory tract

- Leave exposure area (or take the injured out of the exposure area).
- Assure peace and quiet to the injured as well as access to fresh air.
- In case of breathing difficulty, give oxygen.
- In case of breath arrest, apply artificial respiration.
- In case of cardiac arrest, resuscitate.
- Assure medical assistance.

In case of exposure through contact with the eyes

- Remove contact lenses.
- Do not use neutralizers.
- Wash with plenty of cool water for about 15 minutes with the lids open (avoid strong water stream due to the risk of damaging the cornea mechanically)
- In case of any adverse symptoms consultation with an oculist is necessary.

In case of exposure via alimentary tract

- Do not provoke vomiting.
- Rinse the mouth with water.
- Consult the doctor.

4.2. The most important acute and delayed symptoms and effects of exposure

Vapours forming in the temperature of product processing (>100°C) may be irritating to the respiratory tract. In contact with the eyes, the granules may irritate mechanically.

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

Decision as to the rescue procedure shall be taken by the doctor after careful examination of the condition of the injured.

SECTION 5: Firefighting measures

Proceed in accordance with procedures. Inform the surroundings about the accident. Remove all people not involved in the liquidation of the accident from the premises. Order evacuation if the need arises. Fight minor fires with readily available extinguishing media. In case of major fires call Fire Brigades and the Police.

5.1. Extinguishing media

Suitable extinguishing media: dry chemicals, CO₂, foam, water.

Unsuitable extinguishing media: no data

Minor fire: extinguish using dry-chemical or carbon-dioxide extinguisher (CO₂).

Major fire: If possible cool down the containers exposed to fire or high temperature with water spray from a safe distance and remove to a safe place.

5.2. Special hazards arising from the mixture

This product is flammable. During combustion product exudes carbon monoxide. Avoid breathing products that are released during fire

Prevent fire fighting wastewater from entering sewage and water reservoirs.

5.3. Advice for firefighters

Protective clothing and an apparatus protecting respiratory tract.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove all people not involved in the liquidation of the accident from the premises. Do not inhale dust.

For emergency responders

Protect containers against overheating. Do not smoke and use sparking tools. Remove sources of ignition.

Do not inhale dust. Use personal protective gloves and protecting clothing in case of release of the mixture or long-term exposure.

6.2. Environmental precautions

Prevent from entering sewers, rivers or other bodies of water and soil.

6.3. Methods and material for containment and cleaning up

- Secure catch basin.
- Eliminate the leak, if possible (place the damaged container in a tight protective container). Collect product to a properly labelled, closed waste container. Dispose of the discards in accordance with relevant regulations.

6.4. Reference to other sections

Refer to Sections 8 and 13 of the safety data sheet.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

During usage observe basic principles of hygiene of work with chemical products: do not eat or drink, avoid contact with the product, inhaling dust, contaminating eyes and skin. During breaks at work wash hands. The product is used after it has been heated to high temperature – there is a risk of scalding. The product is used melted, especially in temperature higher than recommended it may release smoke and vapours that is why job post shall be well ventilated. Mechanical ventilation with spot air extractor, which prevents the emission of vapours and smoke at the source of their formation and prevents their further spread to the environment. Equip personnel with personal protection means – see section 8.

7.2. Conditions of safe storage including information on any mutual nonconformities

Store in original appropriately marked and tightly closed packaging in dry, shadowed locations, in temperature between +5 and +24°C. Guarantee period – 12 months after production date. Do not store in immediate vicinity of heat sources.

Additional information in section 10.

7.3. Specific end uses

None.

SECTION 8: Exposure controls/personal protection means

8.1. Control parameters

Allowed concentrations at work environment. No data for the product. The product does not contain ingredients for which the maximum concentration values at work environment have been set.

(Regulation of the Labour and Social Policy Minister of November 29th 2002 on the highest allowed concentrations and intensities of agents hazardous for the health in work environment, Journal of Laws 2002 No 217 item 1833 as amended).

Recommended monitoring procedures

Regulation of the Health Minister of February 2011 on examining and measuring health hazardous agents in work environment (Journal of Laws 2011 No 33 item 166).

8.2. Exposure control

Applied technical protection measures

Information provided in section 7.

Personal protection measures:

Eyes or face protection: protective glasses.

- hand protection: protective gloves.

- other: protective clothing.

- other: appropriate protective clothing.

Respiratory protection: in case of insufficient ventilation use masks with dust and organic vapours absorbers (exceeding recommended temperature may cause vapour release).

Thermal risks: use protective means described above.

Environment exposure protection

Mixture shall not access ground waters, sewage or soil.

SECTION 9. Physical and chemical properties.

9.1. Information about general physical and chemical properties

- | | |
|--|----------------------------------|
| • Form | beige solid substance (granules) |
| • Odour | characteristic |
| • Odour threshold | no data |
| • pH | no data |
| • Melting/solidification point | no data |
| • Boiling temperature | no data |
| • Flash point | no data |
| • Evaporation rate | no data |
| • Flammability (of solid substance. gas) | flammable |

- Lower explosive/combustion limit no data
- Upper explosive/combustion limit no data
- Vapour pressure no data
- Vapour density no data
- Density $1.25 \pm 0.03\text{g/cm}^3$
- Solubility in water not soluble in water, dissolves well in some organic solvents

- Partition coefficient: n-octanol/water no data
- Self-ignition temperature the product does not ignite on its own
- Decomposition temperature no data
- Viscosity Brookfield's metod $67\,000 \pm 5,000 \text{ mPa}\cdot\text{s} (190^\circ\text{C})$
- Explosive properties no data
- Oxidizing properties no data

9.2. Other information

- Temperature of softening $98 \pm 2\text{C}$

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is not reactive under normal conditions.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

High temperature.

10.5. Incompatible materials

Strong oxidizers.

10.6. Hazardous decomposition products

Do not occur under normal conditions.

SECTION 11: Toxicological information.

11.1. Information on toxicological effects

Acute toxicity: no data for the product.

Irritating effect: based on the data available, classification criteria are not met.

Caustic effect: based on the data available, classification criteria are not met.

Allergenic effect: based on the data available, classification criteria are not met.

Repeated dose toxicity: based on the data available, classification criteria are not met.

Carcinogenicity: based on the data available, classification criteria are not met.

Mutagenicity: based on the data available, classification criteria are not met.

Toxicity to reproduction: based on the data available, classification criteria are not met.

Information on likely routes of affecting

Swallowing: no data.

Inhaling: Vapours released at the temperature at which the product is processed (>100°C) may irritate the respiratory tract.

Skin exposure: no data.

Eye exposure: In result of contact with the eyes, product granules may mechanically irritate the eyes.

Symptoms related to physical, chemical and toxicological properties: no data.

Delayed, immediate and prolonged effects of short- and long-term exposure: no data

Consequences of mutual interaction: no data.

Other information: no data.

SECTION 12: Ecological information

12.1. Toxicity:

No data for the product.

12.2. Persistence and degradability

No data.

12.3. Bio-accumulative potential

No data.

12.4. Mobility in soil

No data.

12.5. Results of PBT and vPvB assessment

The mixture's ingredients do not fulfil PBT and vPvB criteria.

12.6. Other adverse effects

Unknown.

SECTION 13: Disposal considerations.

13.1. Waste treatment methods

If possible, waste shall be recovered.

Do not allow the contamination of surface and ground waters. In line with the law regulation in force in Poland, waste may be collected, neutralized, recovered or recycled only by authorised companies, and it may be given only to such companies. In case of doubt, waste disposal procedures shall be discussed and agreed with the local Environment Protection Inspection unit.

Removal of mixture: Consider recycling.

Waste code: 08 04 10 Wastes from adhesives and sealants other than listed in 08 04 09.

Disposal of packaging: recycling or neutralization of packaging waste shall be done in line with the binding law regulations. Multi-use packaging shall be re-used after cleaning. Waste shall be neutralized in

professional authorised incinerating plants or waste neutralization plants. Clean packaging may be disposed of as ordinary packaging waste.

Waste code: 15 01 02 – Plastic packaging.

The following law regulations shall be observed:

The law of April 27, 2001 on waste (Journal of Laws of 2001 no 62, item 628 as amended).

The Environment Minister Regulation of 27 September 2001 on waste catalogue (Journal of Laws of 2001 no 112, item 1206).

The Act of 11 May 2001 on packaging and Packaging waste (Journal of Laws of 2001 no 63, item 638 as amended).

SECTION 14: Transport information.

This product is not subject to regulations on the transport of dangerous goods.

Transport by road

14.1. UN Number	does not apply
14.2. Proper UN transport name	does not apply
14.3. Hazard class in transport	does not apply
14.4. Packaging group	does not apply
14.5. Environmental risk	unknown
14.6. Special precautions	while manipulating the cargo, use protection means in line with SECTION 8.
14.7. Bulk transport pursuant to schedule II to the convention MARPOL 73/78 and IBC code	no data

SECTION 15: Regulatory information.

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

The Regulation of the Minister of Health of 21 December 2005 on essential requirements for individual protection measures (Journal of Laws of 2005 No. 259, item 2173).

The Act of 25 February 2011 on chemical substances and their mixtures (Journal of Laws of 2011 no. 63 item 322).

The Regulation of the Minister of Health of 20 April 2012 on labelling containers with hazardous substances, preparations and some chemical preparations (Journal of Laws of 2012 No. 0 item 445).

Directive 1999/45/EC of the European Parliament and Council of 31 May 1999 on harmonising the regulatory, executive and administrative provisions of Member States relating to the classification, labelling and packaging of hazardous substances and mixtures.

Regulation (EC) No 1907/2006 of the European Parliament and Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Regulation of the European Parliament and Council (EC) no. 1272/2008 of 16 December 2008 on the classification, labelling and packaging of hazardous substances and mixtures amending and repealing directives 67/548/EEC and 1999/45/EC and amending the directive (EC) no. 1907/2006 (Official Journal EU series L 353 of 31 December 2008 as amended).

Directive of the Committee (EC) no. 790/2009 of 10 August 2009 adjusting the Directive of the European Parliament and Council (EC) no. 1272/2008 of 16 December 2008 on the classification, labelling and packaging of substances and mixtures, to the technical-and-scientific progress.

Regulation of the Committee (EC) no. 453/2010 of 20 May 2010 amending the regulation No. 1906/2006 of the European Parliament and Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

European agreement on international transport of dangerous goods by road ADR ((in force since January 1, 2005) (Journal of Laws of 2005, No. 178, item 1481).

The Act of 19 August 2011 on the transport of dangerous goods by road (Journal of Laws of 2011 no. 227, item 1367 as amended).

The Regulation of the Minister of Health of June 11, 2012 on the categories of hazardous substances and mixtures, whose packaging shall be equipped with locks preventing children from opening it and warning information sensed by touch (Journal of Laws of 2005 No. 0, item 688).

Regulation of European Chemicals Agency of 16 June 2014 (ECHA/PR/13/40) concerning substances of very high concern (SVHC)

15.2. Chemical safety assessment

The producer of the mixture did not provide the evaluation of chemical safety.

SECTION 16: Other information.

Updates relate to sections 9 and 15.

The explanation of abbreviations and acronyms used in the safety data sheet

PBT – Persistent, Bio-accumulative, Toxic.

vPvB – very Persistent and very Bio-accumulative.

References to key literature and sources

Safety data sheet of the mixture's ingredients. Data base of the European Commission Joint Research Centre.

Legal regulations.

Recommendations with regard to employee trainings

Prior to commencement of work, the employee shall be trained as regards Work Safety and Hygiene in respect of handling chemicals and receive appropriate on the job training.

Persons handling the transport of hazardous materials shall be trained in respect of safety and receive appropriate on the job training.