Preliminary

EEC-Safety data sheet

PHASE CHANGE MATERIAL

Version: 1 Date: 15.01.2007 Revision: 21/04/2010

2. Potential hazards

EEC-labelling: Xn, harmful
Potential dangers to health and environment:
In case of swallowing product lung damage can be caused.
Danger of fire and explosion:
Low risk. Product creates only ignitable mixtures or burns, if temperature exceeds flash point.

3. Composition/information of ingredients

Chemical characterisation:

CAS-No: 593-45-3
EG-No: 209-790-3; R65

4. First-aid measures

Inhalation:
Take concerned person to fresh air. In case of lasting aches and pains take medical advice.

Eye contact:
In case of eyes contact rinse out eyes. In case of irritation take medical advice.

Skin contact:
In case of skin contact wash concerned area with water and soap. In case of irritation take medical advice. Contact with liquid product skin burns can be caused. Cooling burned skin and take medical advice.

In case of swallowing:
Drink water and rinse out mouth. Don’t induce vomiting, risk of aspiration. Take medical advice immediately.

5. Fire-fighting measures

Suitable means for extinguishing:
Carbon dioxide, foam, powder, sand, water mist

Unsuitable means for extinguishing:
water jet

Special hazards caused by the substance, its combustion products or arising gases:
Product flames and air can cause explosive conglomerates heavier than air. Inflammation by hot surfaces, unshielded flames and sparks. Don’t inhale combustion gases and suspended matter which formed at combustion. Carbon monoxide, carbon dioxide and soot can also develop.

Special protective equipment in closed rooms:
Use breathing apparatus independent from ambient air.

Additional information:
Cool endangered containers externally with water
Fire class according to DIN-EN 2: B

6. Measures in case of unintended release

Personal precautions:
Caution of wet floor by leaking product. Slip hazard.
Avoid inhalation of product flames. Keep product away from ignition sources, don’t smoke.

Environmental precautions:
It’s not allowed to drain into environment, into bodies of water or sewage system.
Avoid soil contamination.

Methods for cleaning:
Solid: remove product mechanically
Liquid: use binder to bind liquid product, than remove it mechanically.

7. Handling and storage

Handling:
Advises for safe handing:
No special measures necessary while using correctly.
Avoid skin- and eyescontact.

Advice for protection against fire and explosion:
Product mist and air can cause explosive conglomerate.

Storage:
Requirements for storerooms and containers:
Storage category (VCI): 11; flammable agent
Store the product cool, dry and in closed barrels devoid of light. Avoid storage nearby from ignition or heat sources.
Take measure against electrostatic charging. Earth appliances.
Store liquid product in beadable tanks. Avoid the formation of aerosols and product mist at the decant.

Information for storage together with other products:
Avoid storage together with strong oxidising agents.

8. Exposure controls / personal protection

Ingredients with occupational exposure limits which should be monitored:
1. Germany/Switzerland/Austria
   There is no AGW-value for paraffin wax.
2. Germany:
   For aerosols and fine dust AGW-value of 3 mg/m³ has to be kept to.
3. USA
   TLV-value for paraffin vapour: 2 mg/m³

Technical measures of control and air ventilation
Ensure good ventilation at workplace in case of handling the product in closed rooms with higher temperature. Product concentration is to be kept under exposition threshold values.

Personal protective equipment:
Hand protection: protective gloves made of FKM or NBR, 0,4 mm
Eye protection: tight fit safety gogles
Body protection: protective clothes
Breathing protection: In case of rising gases and inadequately ventilation at workplace use breath apparatus.
9. Physical and chemical properties
   Physical state: at room temperature solid
   Colour: clear (liquid), whitish (solid)
   Odour: odourless
   pH-value at 20°C: n.e.
   Melting point (OECD 103): 25 - 28°C
   Typical: 27°C
   Boiling range (OECD 103): 300 - 330°C
   Flash point: approx. 164°C
   Auto flammability: >220°C
   Explosive limit in air: 0.3 - 5Vol.-%
   Vapour pressure at 50°C (OECD104): n. e.
   Vapour density: n. e.
   Density at 40°C (DIN 51 757): 0.756 g/ml
   Solubility at 20°C - in water: <0.0022 mg/l
   Viscosity at 40°C (600-25): 3.1 mPas
   n.a. = not applicable; n.e. = not established

10. Stability / reactivity
    Conditions to avoid:
        No hazard reactions under normal conditions.
        Avoid high thermal load.
        Material to avoid:
        Strong oxidising agents.
        Decomposition products:
        None.

11. Toxicological information
    Acute toxicity:
    Oral LD50: >2000 mg/kg (rat)
    OECD-directive 401; (literature)
    Dermal LD50: >2000 mg/kg (rat)
    OECD-directive 402; (literature)
    Skin irritation: slightly irritant
    OECD-directive 404; (literature)
    Eye irritation: slightly irritant
    OECD-directive 405; (literature)

12. Environmental details
    Avoid drain into environment.
    Elimination/persistence and degradability:
    Easy biological degradable (OECD 301 F).
    Aquatic toxicity:
    EC50 / daphnia (2 days): no reaction
    EC50 / algae (3 days): no reaction

13. Disposal considerations
    After reprocessing, the product can get used again or utilised thermally, otherwise it can be disposed of after consulting with authorities according to the waste disposal codes (European Waste Catalogue).
    It's not possible to define a disposal code because only the application decided the classification. The disposal code is to fix in consultation with the local waste management.

    Packaging:
    Drums: can be returned to supplier or producer

14. Transport information
    Product is not a hazardous good according to ADR/RID; GGV/GGVE, ADNR/ADN; IMDG/GGVSee; ICAO-TI and IATA-DGR).
    No dangerous good.

15. Statutory provisions
    Legal base: 67/548/EWG
    Labelling in accordance with the EEC directives:
    Xn harmful
    Risk-phrase: R-phrase:
    R 65 Harmful. In case of swallowing product lung damage can be caused.

    Safety advice, S-phrase:
    S 2 keep away from children
    S 23 Do not inhale gas/smoke/fumes/aerosol
    S 24 Avoid contact with skin
    S 62 In case of swallowed, do not induce vomiting!
    Take medical advice and show packaging and label.

    Classification according to VbF: Not applicable
    TA-Luft:
    Substance class 3.1.7. III
    Waterhazard class (WGK):
    1
    StörfallVor:
    Not applicable
    Swiss:
    BAG-T-Nr.610200;
    Poison class: 0

16. Other information
    Literature:
    Ullmanns Encyclopädie der technischen Chemie
    4. Auflage, Band 24, Kapitel "Wachse aus Erdöl",
    Verlag Chemie GmbH, 1983.

This safety data sheet contains only safety related information.
For specific data see product data sheet.