

SAFETY DATA SHEET

according to Regulation (EC) No 1272/2008

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

1.1. Product identifier

Trade name: InnoMetal S1K Thinner
Other names: -
MSDS name: EN_InnoMetal_MSDS_S1K Thinner

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

1.2.1. Application of the substance / the mixture
Paint

1.2.2. Applications advised against
No further relevant information available.

1.3. Details of the supplier of the safety data sheet

InnoMetal GmbH
Einsteinstr. 12
D-33104 Paderborn
Fon: +49 (0)221 9582011
info@lnnometal.de

1.4. Emergency telephone number

Monday – Friday, 9:00 am - 4:00 pm
+49 (0)221 958 2011

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008
Flammable liquids, Category 3; H226
Specific Target Organ Toxicity (single exposure), Category 3; H336

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the CLP regulation.
Hazard pictograms:



GHS02 GHS07 GHS09

Signal word: Warning

Hazard statements:

H226: Flammable liquid and vapour
H312: Harmful in contact with skin
H335: May cause respiratory irritation

H336: May cause drowsiness or dizziness
H411: Toxic to aquatic life with long lasting effects
Precautionary statements:
P302+350: IF ON SKIN: Gently wash with soap and water

2.3. Other hazards

Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Components:

| CAS | EINECS | Chemical name | from % | till % | Index Number |
|-----------|-----------|-----------------|--------|--------|--------------|
| 1330-20-7 | 215-535-7 | Xylene | 20 | 25 | 601-022-00-9 |
| 123-86-4 | 204-658-1 | n-Butyl acetate | 40 | 60 | 607-025-00-1 |
| 100-41-4 | 202-849-4 | Ethylbenzene | 3 | 5 | 601-023-00-4 |
| 78-83-1 | 201-148-0 | Isobutanol | 25 | 40 | 603-108-00-1 |

Labelling (CLP):

| CAS | EINECS | Chemical name | Hazard pictograms | Signal word | Hazard statements |
|-----------|-----------|----------------|-------------------|-------------|------------------------------|
| 1330-20-7 | 215-535-7 | Xylene | GHS02, GHS07 | Warning | H226, H312, H332, H315 |
| 123-86-4 | 271-084-6 | n-Butyl acetat | GHS02, GHS07 | Warning | H226, H336 |
| 100-41-4 | 202-849-4 | Ethylbenzene | GHS02, GHS07 | Danger | H225, H332 |
| 78-83-1 | 201-148-0 | Isobutanol | GHS02, GHS05 | Danger | H226, H315, H318, H335, H336 |

Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information: Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.
After inhalation: The following symptoms may occur: Confusion, dizziness, convulsions. Remove from danger area and provide for fresh air. If symptoms occur, seek medical treatment.
After skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician.
After eye contact: Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. Consult a specialist.
After swallowing: Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Obtain medical attention.

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

No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing agents:

Dry chemical

Alcohol-resistant foam

CO₂

5.2. Special hazards arising from the substance or mixture

Do not allow run-off from firefighting to enter drains or water courses.

In case of fire, product may form: Organic crack products and carbon oxides.

5.3. Advice for firefighters

Protective equipment: In the event of fire, wear self-contained breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, containers should be stored separately in closed containments.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

Ensure adequate ventilation.

6.2. Environmental precautions

Do not allow to enter sewers/ surface or ground water. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid exceeding of the given occupational exposure limits (see section 8). Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations. Keep away from sources of ignition. Do not smoke.

Advice on protection against fire and explosion: Avoid formation of aerosol. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge.

7.2. Conditions for safe storage, including any incompatibilities

Storage:

Requirements for storage areas and containers: No smoking. Keep container tightly closed in a dry and well-ventilated place.

Further information on storage conditions: Store between 5°C and 25°C - PROTECT FROM FREEZING!
Other data: No decomposition if stored and applied as directed.

7.3. Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Ingredients with limit values that require monitoring at the workplace: | |
|---|---------------|
| 1330-20-7 Xylene | |
| STEL (1) | 422 mg/m3 |
| TWA (2) | 211 mg/m3 (H) |
| 123-86-4 n-Butyl acetate | |
| STEL (1) | 966 mg/m3 |
| TWA (2) | 724 mg/m3 |
| 100-41-4 Ethylbenzene | |
| STEL (1) | 430 mg/m3 |
| TWA (2) | 215 mg/m3 (H) |

Additional information: STEL (1) = Short Term Exposure Limits - 15 min.
TWA (2) = Time Weighted Average - 8 hrs.

According to "Grenswaarden gezondheidsschadelijke stoffen 2007-2008" (NL).

8.2. Exposure controls

Respiratory protection: Suitable respiratory protective device recommended.

Protection of hands: Solvent-resistant gloves. The selected protective gloves have to comply with the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it. Before removing gloves clean them with soap and water.



Protective gloves

Eye protection: Goggles recommended during refilling.

Body protection: Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

General protective and hygienic measures: Handle in accordance with good industrial hygiene and safety practice. When using, do not eat or drink. When using, do not smoke. Wash hands before breaks and at the end of workday.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Information

Appearance:
Form: liquid
Colour: colourless
Odour: characteristic
Boiling point / Boiling - range (°C): 108 (Lit.)
Flash point (°C, c.c.): 31
Ignition temperature (°C): 415
Oxidising properties: None.
Explosion limits (Vol.%) lower: 1, upper: 7.5
Vapour pressure: 10 hPa
Density (g/ml): 0.85
Solubility (in Water): immiscible
Soluble in: most organic solvents.
Viscosity: ~ 44s at 2 mm
Solvent content (m %): 100
Vapour density (Air = 1): Vapours are heavier than air.

9.2. Other information

No further relevant information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

No further relevant information available.

10.3. Possibility of hazardous reactions

Vapours may form explosive mixture with air.

10.4. Conditions to avoid

Stable under recommended storage and handling conditions (see section 7). When exposed to high temperatures may produce hazardous decomposition products.

10.5. Incompatible materials

Reactions with strong oxides, acids and bases.

10.6. Hazardous decomposition products

No further relevant information available.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity:

Skin irritation: May cause skin irritation in susceptible persons. Frequent or permanent contact to skin may lead to irritation or dermatitis.

Eye irritation: Vapours may cause irritation to the eyes, respiratory system and the skin.

Sensitisation: Inhalation of solvent-vapours in high concentration causes narcotic effects.

Further information: The product itself has not been tested. Solvents may degrease the skin.

SECTION 12: Ecological information

12.1. Toxicity

Do not allow to enter drains or water courses. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations

12.2. Persistence and degradability

No further relevant information available.

12.3. Bio-accumulative potential

No further relevant information available.

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

Not applicable.

12.6. Other adverse effects

No further relevant information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recommendation

Do not allow into drains or water sources. Residues in empty containers should be neutralised with decontaminant (see section 6). Dispose of according to the local applicable regulations.

European waste catalogue

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste Codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

D 10 / R 1 Waste - Code - No.: 07 03 04

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1. UN number

ADR, IMDG, IATA: 1263

14.2. UN proper shipping name

ADR, IMDG, IATA: 1263

14.3. Transport hazard class(es)

ADR:



Class: 3 Flammable Liquids

Label: 3

IMDG, IATA:



Class: 3 Flammable Liquids

14.4. Packing group

ADR, IMDG, IATA: III

14.5. Environmental hazards

Marine pollutant: No.

14.6. Special precautions for user

Warning: Paint related material

Danger code (Kemler): 30

EMS number: F-E, S-E

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

Transport/Additional information:

ADR

Transport class: 3

Tunnel restriction code: D/E

Limited quantity : 5 litres

UN "Model Regulation": UN1263, FLAMMABLE LIQUIDS, LIQUID, 3, III

SECTION 15: Regulatory information

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

National regulations:

Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

Further information: Protect against freezing.

VOC Substances Data: 64.58 % 612.19 g/l

15.2. Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

16.1. Wording of P und H phrases

Relevant phrases

(serves as the explanation for only the hazard and risk phrases noted in the MSDS, e.g. in chapter 3)

H225: Highly flammable liquid and vapour

H226: Flammable liquid and vapour

H312: Harmful in contact with skin

H315: Causes skin irritation

H318: Causes serious eye damage

H332: Harmful if inhaled

H335: May cause respiratory irritation

H336: May cause drowsiness or dizziness

Precautionary statements:

P302+350: IF ON SKIN: Gently wash with soap and water

16.2. Further information

The information provided in this material safety data sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warrant or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This information shall not constitute a guarantee for any specific product feature and shall not establish a legally valid contractual relationship.