

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 Thinner EP1

Other names: -

MSDS name: EN_InnoMetal_MSDS_Thinner EP1

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

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1.4. Emergency telephone number

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS02



GHS07

H226: Flammable liquid and vapour

H312: Harmful in contact with skin

H332: Harmful if inhaled

H315: Causes skin irritation

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

Signal word: Warning

Hazard statements:

H226: Flammable liquid and vapour

H312: Harmful in contact with skin

H332: Harmful if inhaled

H315: Causes skin irritation

Precautionary statements:

P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking

P302+352: IF ON SKIN: 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

Description: Alloy of substances listed below with non-hazardous additions.

Components:

CAS	EINECS	Chemical name	from %	till %	Hazard pictograms	R phrases	Index Number
1330-20-7	215-535-7	Xylene	50	75	Xn	10, 20/21, 38	601-022-00-9
71-36-3	200-751-6	Butanol	10	25	Xn	10, 22, 37/38, 41, 67	-
100-41-4	202-849-4	Ethylbenzene	10	25	Xn	10, 20	601-023-00-4

Labelling (CLP):

CAS	EINECS	Chemical name	Hazard pictograms	Signal word	Hazard statements
1330-20-7	215-535-7	Xylene	GHS02, GHS07	Warning	P210, P302+352
71-36-3	200-751-6	1-Butanol	GHS02, GHS07	Danger	H226, 302, 318, 315, 335, 336 P280, 302+352, 305+351+338, 337+313
100-41-4	202-849-4	Ethylbenzene	GHS02, GHS07	Danger	H225, 332 P210

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: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.

After inhalation: Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

After skin contact: Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

After eye contact: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart and seek medical advice.

After swallowing: If accidentally swallowed obtain immediate medical attention. Keep at rest. DO NOT induce vomiting.

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:

Alcohol resistant foam, CO₂, powders, water spray

For safety reasons unsuitable extinguishing agents:

Water

5.2. Special hazards arising from the substance or mixture

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not allow run-off from firefighting to enter drains or watercourses.

5.3. Advice for firefighters

Protective equipment: No special measures required.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Exclude sources of ignition and ventilate the area.

Avoid breathing vapours.

Refer to protective measures listed in sections 7 and 8.

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

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

Clean preferably with a detergent; avoid the use of solvents.

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

Precautions for safe handling:

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. In addition, the product should only be used in areas from which all-naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Preparation may charge electrostatically:

always use earthing leads when transferring from one container to another. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Keep container tightly closed. Isolate from sources of heat, sparks and open flame. No sparking tools should be used. Avoid skin and eye contact. Avoid the inhalation of dust, particulates and spray mist arising from the application of this preparation. Avoid inhalation of dust from sanding. Smoking, eating and drinking should be prohibited in application area. For personal protection, see section 8. Never use pressure to empty: container is not a pressure vessel. Always keep in containers of same material as the original one. Comply with the health and safety at work laws.

7.2. Conditions for safe storage, including any incompatibilities

Storage:

Observe the label precautions. Store between 10° and 30°C in a dry, well-ventilated place away from sources of heat and direct sunlight.

Keep away from sources of ignition. Keep away from oxidising agents, from strongly alkaline and strongly acid materials.

No smoking. Prevent unauthorized access. Containers that are opened must be carefully resealed and kept upright to prevent leakage. Do not empty into drains.

Further information about storage conditions: None.

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/m ³
TWA (2)	211 mg/m ³ (H)
71-36-3 Butanol	
STEL (1)	45 mg/m ³ (H)
100-41-4 Ethylbenzene	
STEL (1)	430 mg/m ³
TWA (2)	215 mg/m ³ (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: Preventive skin protection by use of skin-protecting agents is recommended.



Protective gloves

Eye protection: Goggles recommended during refilling.

Body protection: Protective work clothing. Personnel should wear anti-static clothing made of natural fibre or of high temperature resistant synthetic fibre.

General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals. Wash hands before breaks and at the end of work.

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the occupational exposure limits (OEL), suitable respiratory protection must be worn.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Information

Appearance:

Form: Liquid

Colour: Clear

Odour: Not applicable

PH-value: Not applicable

Change in condition

Melting point/Melting range: Not applicable.

Boiling point/Boiling range: ~144 °C (see Xylene)

Flash point: 25 °C [Method : DIN 53213]

Flammability (solid, gaseous): Not determined

Ignition temperature: Not determined

Decomposition temperature: Not applicable

Self-igniting: Product is not self-igniting.

Danger of explosion: Dust can combine with air to form an explosive mixture.

Explosion limits:

Lower: 1.0 vol. %

Upper: Not determined

Vapour density: > than air

Density at 20 °C: ca. 0.88 g/l [Method : DIN 53214]

Bulk density: Not determined.

Evaporation rate: Not applicable

Solubility in / Miscibility with water: Insoluble.

Partition coefficient (n-Octanol/water): Not applicable

Viscosity: Not applicable.

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

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

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

No further relevant information available.

10.6. Hazardous decomposition products

Such as carbon monoxide and dioxide, smoke, oxides of nitrogen, etc.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity:

Primary irritant effect:

on the skin: Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

on the eye: The liquid splashed in the eyes may cause irritation and reversible damage.

Sensitization: Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Additional toxicological information: Inhalation of dust or fumes leads to irritation of respiratory system.

Inhalation of higher concentrations may cause metal fume fever.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):

No further relevant information available.

SECTION 12: Ecological information

12.1. Toxicity

Do not allow to enter drains or watercourses. 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.

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): -
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

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.

15.2. Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

16.1. Wording of R 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)

H226: Flammable liquid and vapour

H312: Harmful in contact with skin

H332: Harmful if inhaled

H315: Causes skin irritation

H225: Highly flammable liquid and vapour.

H302: Harmful if swallowed.

H318: Causes serious eye damage.

H335: May cause respiratory irritation.

Precautionary statements:

P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking

P302+352: IF ON SKIN: 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.