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 Cobalt
Other names: -
MSDS name: EN_InnoMetal_MSDS_Cobalt

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

1.2.1. Application of the substance/the mixture
Paint/Additional component

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@Innometal.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
Acute toxicity, Category 4, dermal; H312
Acute toxicity, Category 4, inhalation; H332
Aquatic Chronic, Category 3, Harmful to aquatic life with long lasting effects; H412

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:

GHS07
Signal word: Warning
Hazard statements:
H312: Harmful in contact with skin.
H332: Harmful if inhaled.
H412: Harmful to aquatic life with long lasting effects.

Precautionary statements:
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P262 Do not get in eyes, on skin, or on clothing.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

2.3. Other hazards

All chemicals are potentially dangerous. They are therefore only be handled by specially trained personnel with the necessary care.
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Dangerous components:

CAS	EINECS	Chemical name	from %	till %	Index Number
1330-20-7	215-535-7	Xylene	2,5	5,0	601-022-00-9
68409-81-45	270-066-5	Fatty acids, C6-19-branched, cobalt(2+) salts	5	10	
6846-50-0	229-934-9	1-Isopropyl-2,2-dimethyltrimethylene diisobutyrate	80	90	-

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
68409-81-45	270-066-5	Fatty acids, C6-19-branched, cobalt(2+) salts	GHS07, GHS08, GHS09	Danger	H350i, H341, H360F, H302, H334, H317, H410
6846-50-0	229-934-9	1-Isopropyl-2,2-dimethyltrimethylene diisobutyrate	-	-	-

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: Take care of personal protection for the first aider.
After inhalation: Supply fresh air; call for doctor. In case of unconsciousness place patient stably in side position for transportation.
After skin contact: Immediately wash with water and soap and rinse thoroughly. Immediately remove contaminated clothing.

After eye contact: Rinse opened eye for several minutes under running water.
After swallowing: If symptoms persist consult doctor.

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: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2. Special hazards arising from the substance or mixture
Under certain fire conditions, traces of other toxic gases cannot be excluded.

5.3. Advice for firefighters
Do not inhale explosion gases or combustion gases.

SECTION 6: Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures
Avoid contact with the eyes and skin.
Do not breathe dust.
Wear protective equipment.
Keep unprotected persons away.

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
Ensure adequate ventilation.
Soak up with absorbent material (e. g. Vermiculit) and dispose of in accordance with government regulations.

6.4. Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage
7.1. Precautions for safe handling
Pay attention to the special requirements of your local authorities for handling with dangerous goods.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.
Use only in well-ventilated areas.
Before break and at the end of work hands should be thoroughly washed.
Avoid contact with skin and eyes.
While using, do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities

Storage:
Pay attention to the special requirements of your local authorities for storing dangerous goods.
Requirements to be met by storerooms and receptacles: Prevent any seepage into the ground.
Use only receptacles specifically permitted for this substance/product.
Information about storage in one common storage facility: Store away from peroxide.
Store away from foodstuff, drinks and feeding stuff.
Further information about storage conditions:
Recommended storage temperature (To maintain quality): +5 - +30°C
Storage class: -

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	
WEL (Great Britain)	Short-term value: 441 mg/m3, 100 ppm Long-term value: 220 mg/m3, 50 ppm Sk; BMGV
IOELV (EU)	Short-term value: 442 mg/m3, 100 ppm Long-term value: 221 mg/m3, 50 ppm
84-69-5 diisobutyl phthalate	
WEL (Great Britain)	Long-term value: 5 mg/m3

(68409-81-45 Fatty acids, C6-19-branched, cobalt(2+) salts:
K2 - Carcinogenic EG-category 2:
Substances that should be regarded as being carcinogenic for humans
M3 - Mutagenic EG-category 3:
Substances that possibly are mutagenic for humans and thus give cause for concern)

Additional information: The lists valid during the making were used as basis.

8.2. Exposure controls

Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure, use self-contained respiratory protective device.
Use suitable respiratory protective device in case of insufficient ventilation.
Filter A2
Protection of hands: Only use chemical-protective gloves with CE-labelling of category III.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Material of gloves:
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
Butyl rubber, BR
Fluorocarbon rubber (Viton)
Nitrile rubber, NBR
Neoprene

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has be observed.


Protective gloves

Eye protection: Tightly sealed goggles.
Body protection: Protective work clothing.
General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Do not inhale gases/fumes/ aerosols. Avoid close or long term contact with the skin. Do not eat, drink, smoke or sniff while working. Use skin protection cream for skin protection. Be sure to clean skin thoroughly after work and before breaks.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form: Fluid
Colour: Violet
Odour: Characteristic
Change in condition
Melting point/Melting range: Undetermined.
Boiling point/Boiling range: Undetermined.
Flash point: >55°C
Self-igniting: Product is not self-igniting.
Danger of explosion: Product does not present an explosion hazard.
Density at 20°C: 1.04 g/cm3
Solubility in / Miscibility with water: Not miscible or difficult to mix.
Segregation coefficient (n-octanol/water): not determined
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

No further relevant information available.

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

No hazardous decomposition products if used and stored according to specifications.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

LD/LC50 values relevant for classification:
84-69-5 diisobutyl phthalate
Oral LD50 15000 mg/kg (rattus)
1330-20-7 xylene
Oral LD50 4300 mg/kg (rattus)

Primary irritant effect:
on the skin: Low irritant effect
on the eye: Low irritant effect
Sensitization: Sensitization possible through skin contact.
Additional toxicological information: The product shows the following dangers according to the calculation method of the General EU
Classification Guidelines for Preparations as issued in the latest version: Irritant
Sensitisation May cause sensitisation by skin contact.

Further information: The product should be handled with the care usual when dealing with chemicals.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxical effects:
Acquatic toxicity:
84-69-5 diisobutyl phthalate
EC50 / 24h 2.2 mg/l (scenedesmus subspicatus)
LC50 / 96h 3 mg/l (cyprinus carpio)

1330-20-7 xylene
EC50 / 48h 86 mg/l (leuciscus idus)
EC50 / 96h 14 mg/l (oncorhynchus mykiss)
LC50 / 24h 165 mg/l (daphnia magna)
LC50 / 3h 46 mg/l (chlamyd.angulosa)

12.2. Persistence and degradability

Anorganic product is not eliminable from water by means of biological cleaning processes.

12.3. Bio-accumulative potential

No further relevant information available.

12.4. Mobility in soil

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.

12.5. Results of PBT and vPvB assessment

No further relevant information available.

12.6. Other adverse effects

No further relevant information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recommendation: This material and its container must be disposed of as hazardous waste.
The disposal is regionally differently regulated; therefore, the kind of disposal is to be inquired at the responsible authorities.
Uncleaned packaging:
Recommendation: This material and its container must be disposed of as hazardous waste.

SECTION 14: Transport information

14.1. UN number

ADR, IMDG, IATA: 1993 Flammable liquids, n.o.s.

14.2. UN proper shipping name

ADR: 1993 Entzündbarer, flüssiger Stoff
1993 Flammable liquids, n.o.s.
IMDG, IATA: 1993 Flammable liquids, n.o.s.

14.3. Transport hazard class(es)

ADR:

Klasse: 3, Entzündbare flüssige Stoffe
Gefahrzettel: 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: LQ7
UN "Model Regulation": UN1993 FLAMMABLE LIQUID, N.O.S. (STYRENE MONOMER, STABILIZED) |

UN1993, 1993 ENTZÜNDBARER FLÜSSIGER STOFF, N.A.G. (nicht viskos) (STYREN, MONOMER, STABILISIERT)

SECTION 15: Regulatory information

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

Hazard-determining components of labelling: Fatty acids, C6-19-branched, cobalt(2+) salts
National regulations:
Other regulations, limitations and prohibitive regulations
Please note: Take care of the respective local regulations.
Substances of very high concern (SVHC) according to REACH, Article 57
None of the ingredients is listed.

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.

Precautionary statements:
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P262 Do not get in eyes, on skin, or on clothing.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

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.