



1 Identification of the substance / preparation and of the company

EdgeMet Solution A Article number: 20-8192 A

Use:	See product information.
Identified use:	none
Method of operation:	See product information.
Company:	Buehler GmbH In der Steele 2 D-40599 Düsseldorf / GERMANY Phone: 0800 707 6273 Fax: 0800 707 6274 Homepage: www.buehler-met.de/en/ E-mail: sales@buehler.co.uk
Emergency phone:	0800 707 6273 (Only valid if dialled within the UK) +49 (0) 211 974100
Responsible:	Schroeder@chemiebuero.de

2 Hazards identification

Physico-chemical hazards:	See chapter 10.
Human health dangers:	See R-phrases.
Environmental hazards:	See R-phrases.
Other hazards:	none
Hazard symbols:	



Toxic



Dangerous for the environment

R-phrases:	R 49: May cause cancer by inhalation. R 68: Also possible risk of irreversible effects. R 61: May cause harm to the unborn child. R 20/22: Also harmful by inhalation and if swallowed. R 42/43: May cause sensitisation by inhalation and skin contact. R 48/23: Also toxic - danger of serious damage to health by prolonged exposure through inhalation. R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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3 Composition / Information on ingredients

Range [%]	Substance
3 - < 5	Nickel dichloride
	Registration: CAS: 7718-54-9, EINECS/ELINCS: 231-743-0, EU-INDEX: 028-011-00-6, ECBnr:
	GHS/CLP:
	EEC: T-N, R49-61-23/25-38-42/43-48/23-68-50/53

Comment on component parts:	For the wording of the listed risk phrases refer to section 16.
Substances of Very High Concern - SVHC:	There are contained no substances which are named in the list SVHC (Candidate List of Substances of Very High Concern for authorization).

4 First aid measures

General information:	Remove contaminated soaked clothing immediately and dispose of safely.
Inhalation:	Ensure supply of fresh air. In the event of symptoms seek for medical treatment.
Skin contact:	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
Eye contact:	In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.
Ingestion:	Consult a doctor immediately. Rinse out mouth and give plenty of water to drink.
Advice to doctor:	Treat symptomatically.

**5 Fire-fighting measures**

Suitable extinguishing media:	Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.
Extinguishing media that must not be used:	Full water jet.
Special exposure hazards arising from the substance or preparation itself or combustion products:	Unknown risk of formation of toxic pyrolysis products.
Special protective equipment for firefighters:	Use self-contained breathing apparatus. Wear full protective suit.
Additional information:	Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

6 Accidental release measures

Personal precautions:	Use personal protective equipment (protective gloves, safety glasses, protective clothing). Ensure adequate ventilation.
Environmental precautions:	Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater.
Methods for cleaning up:	Take up with absorbent material (e.g. general-purpose binder). Dispose of absorbed material in accordance with the regulations.

7 Handling and storage

Advice on safe handling:	Provide suitable vacuuming at the processing machines.
Advice on protection against fire and explosion:	No special measures necessary.
Requirements for storage rooms and vessels:	Keep only in original container.
Advice on storage compatibility:	No special measures necessary.
Further information on storage conditions:	Keep container tightly closed. Keep container in a well-ventilated place. Keep under lock and key. Should only be accessible to specialists or people authorized by them.

8 Exposure controls / personal protection

Additional advice on system design: Ensure adequate ventilation on workstation.

Ingredients with occupational exposure limits to be monitored: (GB)

Range [%]	Substance / WEL: Workplace exposure limit

Respiratory protection:	Breathing apparatus in the event of high concentrations. Short term: filter apparatus, filter P3.
Hand protection:	Butyl rubber, >120 min (EN 374).
Eye protection:	Safety glasses.
Skin protection:	Light protective clothing of plastic material.
General protective measures:	Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols.
Hygiene measures:	Do not eat, drink, smoke or take drugs at work. After worktime and before work breaks the affected skin areas must be thoroughly cleaned. Use barrier skin cream. Remove contaminated soaked clothing immediately and dispose of safely.
Delimitation and monitoring of the environmental exposition:	not determined



9 Physical and chemical properties

Form:	liquid
Color:	green
Odor:	characteristic
pH-value:	weakly acidic
pH-value [1%]:	not determined
Boiling point [°C]:	not determined
Flash point [°C]:	not applicable
Flammability [°C]:	not applicable
Lower explosion limit:	not applicable
Upper explosion limit:	not applicable
Oxidizing properties:	no
Vapour pressure [kPa]:	2,3 (20°C)
Density [g/ml]:	1,0865
Bulk density [kg/m³]:	not applicable
Solubility in water:	miscible
Partition coefficient [n-octanol/water]:	not determined
Viscosity:	not applicable
Relative vapour density determined in air:	not determined
Evaporation speed:	not determined
Melting point [°C]:	ca. 0
Autoignition temperature [°C]:	not applicable
Decomposition temperature:	not applicable

10 Stability and reactivity

Hazardous reactions:	Reactions with strong alkalies and oxidizing agents.
Hazardous decomposition products:	No hazardous decomposition products known.

11 Toxicological information

Acute oral toxicity:	not determined
Acute dermal toxicity:	not determined
Acute inhalational toxicity:	not determined
Irritant effect on eye:	not determined
Irritant effect on skin:	not determined
Sensitization:	not determined
Subacute toxicity:	not determined
Chronic toxicity:	not determined
Mutagenicity:	not determined
Reproduction toxicity:	not determined
Carcinogenicity:	not determined
Experiences made in practice:	none
General remarks:	Toxicological data are not available. The product was classified on the basis of the calculation procedure of the preparation directive.






12 Ecological information

Fish toxicity:	not determined
Daphnia toxicity:	not determined
Behaviour in environment compartments:	not determined
Behaviour in sewage plant:	not determined
Bacteria toxicity:	not determined
Biological degradability:	not determined
COD:	not determined
BOD 5:	not determined
AOX-advice:	No dangerous components.
2006/11/EC:	yes
General information:	The product was classified on the basis of the calculation procedure of the preparation directive.

**13 Disposal considerations**

Product:	Dispose of as hazardous waste.
Contaminated packaging:	Packaging that cannot be cleaned should be disposed of as for product.
Waste no. (recommended):	060313*

14 Transport information

Classification according to ADR:	UN 3264 Corrosive liquid, acidic, inorganic, n.o.s. (contains Nickel chloride) 8 (N), III
- Classification Code:	C1
- Label:	 
- ADR LQ	LQ7 5I
- ADR 1.1.3.6 (8.6):	Transport category (tunnel restriction code): 3 (E)
Classification according to IMDG:	UN 3264 Corrosive liquid, acidic, inorganic, n.o.s. (contains Nickel chloride) 8 III MARINE POLLUTANT
- EMS	F-A, S-B
- Label:	 
- IMDG LQ:	LQ: 5 I
Classification according to IATA:	UN 3264 Corrosive liquid, acidic, inorganic, n.o.s. (contains Nickel chloride) 8 III
- Label:	

15 Regulatory information

Chemical safety report:	not applicable
Exposure scenario:	not applicable
Labelling:	The product is classified and labelled in accordance within EC-directives.
Hazard symbols:	



Toxic



Dangerous for the environment

Contains:	Nickel dichloride
R-phrases:	<p>R 49: May cause cancer by inhalation.</p> <p>R 61: May cause harm to the unborn child.</p> <p>R 68: Also possible risk of irreversible effects.</p> <p>R 20/22: Also harmful by inhalation and if swallowed.</p> <p>R 42/43: May cause sensitisation by inhalation and skin contact.</p> <p>R 48/23: Also toxic - danger of serious damage to health by prolonged exposure through inhalation.</p> <p>R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p>
S-phrases:	<p>S 53: Avoid exposure - obtain special instructions before use.</p> <p>S 45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).</p> <p>S 60: This material and its container must be disposed of as hazardous waste.</p> <p>S 61: Avoid release to the environment. Refer to special instructions, safety data sheets.</p>
Special labelling:	none
Authorisation, TITEL VII:	not applicable
Restrictions, TITEL VIII:	not applicable
EEC-REGULATIONS:	1967/548 (2008/58, 30. ATP/ 31. ATP); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EWG (2008/47/EG)
TRANSPORT-REGULATIONS:	DOT-Classification, ADR (2009); IMDG-Code (34. Amdt.); IATA-DGR (2010).
NATIONAL REGULATIONS (GB)	EH40/2005 Workplace exposure limits with amendments October 2007. CHIP 3/ CHIP 4



16 Other informations

R-phrases (Chapter 03):

R 23/25: Toxic by inhalation and if swallowed.

R 38: Irritating to skin.

R 42/43: May cause sensitisation by inhalation and skin contact.

R 48/23: Toxic - danger of serious damage to health by prolonged exposure through inhalation.

R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 61: May cause harm to the unborn child.

R 68: Possible risk of irreversible effects.

R 49: May cause cancer by inhalation.

Modified position:

Chapter: 14 been added:

Observe employment restrictions for people:

yes

VOC (1999/13/CE):

0%

Disclaimer: This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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