Checkmor 240 Aerosol

Version: 3.0 Revision Date 07.01.2016 Print Date 08.01.2016

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

1.1 Product identifier

Trade name : Checkmor 240 Aerosol

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

Use of the Sub-stance/Mixture : Red penetrative liquid.
Recommended restrictions on use : None known.

1.3 Details of the supplier of the safety data sheet

Company : Chemetall GmbH
Trakehner Strasse 3
60487 Frankfurt a.M.
Lead Organisation : Surface Treatment
Telephone : +49(0)69 7165-0
Telefax : +49(0)69 7165-3567

Contact person product safety
Telephone : +49(0)6971653581
E-mail address : msds.de@chemetall.com

1.4 Emergency telephone number

Emergency telephone number : +49(0)5326 51-0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Aerosols, Category 1	H222: Extremely flammable aerosol. H229: Pressurised container: May burst if heated.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Chronic aquatic toxicity, Category 2	H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements :

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements :

Prevention:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P260	Do not breathe spray.
P262	Do not get in eyes, on skin, or on clothing.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308	IF exposed or concerned:
P310	Immediately call a POISON CENTER or doctor/ physician.

Storage:

P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

Disposal:

P501	Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

- 69227-21-0 Alcohols, C12-18, ethoxylated propoxylated

2.3 Other hazards

The information required is contained in this Material Safety Data Sheet.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical nature : Mixture of organic solvents containing a non-ionic surfactant.

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0,03% aromatics	934-954-2 01-2119826592-36	Asp. Tox. 1; H304 Note N	>= 25 - < 50
Alcohols, C12-18, ethoxylated propoxylated	69227-21-0	Eye Dam. 1; H318 Aquatic Chronic 2; H411	>= 10 - < 25
Propane	74-98-6 200-827-9 01-2119486944-21	Flam. Gas 1; H220 Press. Gas Liquefied gas; H280 Note U (Table 3.1)	>= 10 - < 25
Solvent naphtha (petroleum), heavy aromomatic	64742-94-5 265-198-5	Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 2.5 - < 10
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	95-38-5 202-414-9 01-2119777867-13	Acute Tox. 4; H302 Skin Corr. 1B; H314 STOT RE 2; H373 Aquatic Acute 1; H400	>= 0.1 - < 0.25

		Aquatic Chronic 1; H410	

Substances with a workplace exposure limit :			
Butane	106-97-8 203-448-7 01-2119474691-32	Flam. Gas 1; H220 Press. Gas	>= 25 - < 50

For the full text of the H-Statements mentioned in this Section, see Section 16.
For the full text of the Notas mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : First-aid crew: Ensure self-protection.
Move out of dangerous area.
Take off contaminated clothing and shoes immediately.

If inhaled : Move to fresh air.
If symptoms persist, call a physician.

In case of skin contact : Wash off with soap and plenty of water.
If symptoms persist, call a physician.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids.
Call a physician immediately.

If swallowed : Rinse mouth with water.
Do NOT induce vomiting.
Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

Risks : Causes serious eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.
For specialist advice physicians should contact the Poisons Information Service.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	Carbon dioxide (CO2) Dry powder Alcohol-resistant foam Water spray
Unsuitable extinguishing media	:	High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting	:	May form toxic gases on heating or in case of fire. Carbon monoxide Carbon dioxide (CO2) Aldehydes

5.3 Advice for firefighters

Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.
Further information	:	Use water spray to cool unopened containers. Risk of bursting.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Wear personal protective equipment.

6.2 Environmental precautions

Environmental precautions	:	Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system. Inform the relevant authorities if it enters sewers, aquatic environment or soil.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up	:	Ensure adequate ventilation. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

For further information see Section 8 of the safety data sheet. For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	:	Provide sufficient air exchange and/or exhaust in work rooms. Floor level ventilation required. Have eye wash bottle or eye rinse ready at the work place. To avoid risks to man and the environment, comply with the instructions for use.
Advice on protection against fire and explosion	:	Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours may form explosive mixtures with air. Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	:	Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. To maintain product quality, do not store in heat or direct sunlight.
Storage temperature	:	< 50 °C

7.3 Specific end use(s)

Specific use(s)	:	Red penetrative liquid.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value	Control parameters	Update	Basis
Butane	106-97-8	TWA	600 ppm 1,450 mg/m3	2007-08-01	GB EH40
Further information	:	Carc: Capable of causing cancer and/or heritable genetic damage. The identified substances include those which: - are assigned the risk phrases 'R45: May cause cancer'; 'R46: may cause heritable genetic damage'; 'R49: May cause cancer by inhalation' or - a substance or process			

		listed in Schedule 1 of COSHH. Carcinogenic only applies if butane contains more than 0.1% of buta-1,3-diene			
		STEL	750 ppm 1,810 mg/m3	2007-08-01	GB EH40
Further information	:	Carc: Capable of causing cancer and/or heritable genetic damage. The identified substances include those which: - are assigned the risk phrases 'R45: May cause cancer'; 'R46: may cause heritable genetic damage'; 'R49: May cause cancer by inhalation' or - a substance or process listed in Schedule 1 of COSHH. Carcinogenic only applies if butane contains more than 0.1% of buta-1,3-diene			

DNEL/DMEL

2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol :

End Use: Workers DNEL
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 0.46 mg/m3

End Use: Workers DNEL
Exposure routes: Inhalation
Potential health effects: Acute systemic effects
Value: 14 mg/m3

End Use: Workers DNEL
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 0.6 mg/kg bw/day

End Use: Workers DNEL
Exposure routes: Skin contact
Potential health effects: Acute systemic effects
Value: 2 mg/kg bw/day

PNEC

2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol :

Fresh water
Value: 0.00003 mg/l

Marine water
Value: 0.000003 mg/l

Sewage treatment plant
Value: 0.27 mg/l

Intermittent use/release
Value: 0.0003 mg/l

Fresh water sediment
Value: 0.376 mg/kg

Marine sediment
Value: 0.0376 mg/kg

Soil
Value: 0.075 mg/kg

8.2 Exposure controls

Engineering measures

Ensure adequate ventilation, especially in confined areas.
Electrical equipment should be protected to the appropriate standard.
Use only explosion-proof equipment.

Personal protective equipment

Respiratory protection	:	In case of insufficient ventilation wear suitable respiratory equipment. Recommended Filter type: AX-P2
Hand protection	:	Nitrile rubber Protective gloves complying with EN 374. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
Eye protection	:	Eye protection (EN 166) Tightly fitting safety goggles
Skin and body protection	:	Chemical resistant protective clothing according to DIN EN 13034 (Type 6)
Hygiene measures	:	Take off contaminated clothing and shoes immediately. Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and immediately after handling the product. Avoid contact with skin and eyes. Do not breathe vapour. Do not breathe spray.

Environmental exposure controls

General advice	:	Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.

Inform the relevant authorities if it enters sewers, aquatic environment or soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	aerosol
Colour	:	dark red
Odour	:	hydrocarbon-like
Flash point	:	> 93 °C Method: closed cup Active substance -60 °C Butane/Propane
Density	:	0.89 g/cm³ at 20 °C Active substance
Water solubility	:	completely miscible

9.2 Other information

Explosivity	:	Vapours may form explosive mixture with air.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	Vapours may form explosive mixture with air. Pressurised container: May burst if heated.

10.4 Conditions to avoid

Conditions to avoid	:	Keep away from open flames, hot surfaces and sources of ignition.

Strong sunlight for prolonged periods.

10.5 Incompatible materials

Materials to avoid : Strong acids and oxidizing agents

10.6 Hazardous decomposition products

Risk of decomposition. : No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity		
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0,03% aromatics	:	LD50: > 5,000 mg/kg Species: Rat Method: OECD Test Guideline 401
Alcohols, C12-18, ethoxylated propoxylated	:	LD50: > 2,000 mg/kg
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	:	LD50: 1,265 mg/kg Species: Rat Method: OECD Test Guideline 401
Acute dermal toxicity		
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0,03% aromatics	:	LD50: > 3,160 mg/kg Species: Rabbit Method: OECD Test Guideline 402
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	:	LD50: > 2,000 mg/kg Species: Rabbit

Skin corrosion/irritation

Skin irritation : May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

Eye irritation : Causes serious eye damage.

Respiratory or skin sensitisation

Sensitisation : No data available

Acute effects		
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	:	Harmful if swallowed., Causes severe skin burns and eye damage.
Repeated dose toxicity		
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	:	May cause damage to organs through prolonged or repeated exposure.

SECTION 12: Ecological information

12.1 Toxicity

Ecotoxicology studies for the product are not available.

Toxicity to fish		
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0,03% aromatics	:	LC50: > 1,028 mg/l Exposure time: 96 h Species: Fish Method: OECD Test Guideline 203 NOEC: > 1,000 mg/l Exposure time: 28 d Species: Oncorhynchus mykiss (rainbow trout)
Alcohols, C12-18, ethoxylated propoxylated	:	LC50: > 0.1 - 1 mg/l Exposure time: 96 h Species: Brachydanio rerio (Zebra danio)
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	:	LC50: 0.3 mg/l Exposure time: 96 h Species: Brachydanio rerio (Zebra danio) Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates		
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0,03% aromatics	:	LC50: > 3,193 mg/l Exposure time: 48 h Method: ISO 14669 and PARCOM method NOEC: > 1,000 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)

Alcohols, C12-18, ethoxylated propoxylated	:	EC50: 1 - 10 mg/l Exposure time: 48 h Species: Daphnia (water flea)
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	:	EC50: 0.136 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) Method: OECD Test Guideline 202

Toxicity to algae

Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0,03% aromatics	:	ErC50: > 10,000 mg/l Exposure time: 72 h Species: Skeletonema costatum (marine diatom)
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	:	EC50: 0.03 mg/l Exposure time: 72 h Species: Desmodesmus subspicatus Method: OECD Test Guideline 201

Toxicity to bacteria

2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	:	EC50: 26 mg/l Exposure time: 3 h Species: activated sludge Method: OECD Test Guideline 209

12.2 Persistence and degradability

Biodegradability	:	No data available

12.3 Bioaccumulative potential

Bioaccumulation	:	Bioaccumulation is unlikely.

12.4 Mobility in soil

Distribution among environmental compartments	:	No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Additional ecological information	:	water endangering Toxic to aquatic life with long lasting effects.

Even leakage of small amounts in the subsoil can contaminate drinking water.
Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	:	Dispose of in accordance with local regulations.
Contaminated packaging	:	Dispose of as unused product.
Waste Code	:	Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

SECTION 14: Transport information

ADR

UN number	:	1950
UN proper shipping name	:	AEROSOLS
Transport hazard class(es)	:	2
Classification Code	:	5F
Limited Quantity (LQ) Inner Packaging	:	1.00 L
Maximum quantity	:	30.00 KG
Labels	:	2.1
Tunnel restriction code	:	(D)
Environmentally hazardous	:	yes

IATA

UN number	:	1950
Description of the goods	:	Aerosols, flammable
Class	:	2.1
Labels	:	2.1

IATA_C

Packing instruction (cargo aircraft)	:	203
Packing instruction (LQ)	:	Y203
Maximum quantity	:	150.00 KG
Environmentally hazardous	:	no

IATA_P

Packing instruction (passen-	:	203

ger aircraft)

Packing instruction (LQ)	:	Y203
Maximum quantity	:	75.00 KG
Environmentally hazardous	:	no

IMDG

UN number	:	1950
Description of the goods	:	AEROSOLS Fatty alcohol alkoxylate
Class	:	2.1
Labels	:	2.1
EmS Number 1	:	F-D
EmS Number 2	:	S-U
Marine pollutant	:	yes
		Shaded from sources of heat. **"IMDG-Code segregation group not applicable".**
		Shaded from sources of heat. **"IMDG-Code segregation group not applicable".**

RID

UN number	:	1950
Description of the goods	:	AEROSOLS
Transport hazard class(es)	:	2
Classification Code	:	5F
Hazard Identification Number	:	23
Labels	:	2.1
Limited Quantity (LQ) Inner Packaging	:	1.00 L
Maximum quantity	:	30.00 KG
Environmentally hazardous	:	yes

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Water contaminating class (Germany)	:	WGK 2 water endangering VWVWS A4
Other regulations	:	The product is classified and labelled in accordance with EC

directives or respective national laws.
Regional or national implementations of GHS may not implement all hazard classes and categories.

: Classification / Labeling according to Directive 2008/47/EU.

15.2 Chemical Safety Assessment

For a mixture it is not mandatory to include an exposure scenario in the material safety data sheet.
The necessary safety - related information is stated in the first 16 sections.

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H373	May cause damage to organs through prolonged or repeated exposure if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Full text of Notas referred to under section 3

Note N	The classification as a carcinogen need not apply if the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen. This note applies only to certain complex oil-derived substances in Part 3.
Note U (Table 3.1)	When put on the market gases have to be classified as "Gases under pressure", in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.

Further information

The information provided is based on our current knowledge and experience and apply to the product as delivered. Regarding the product properties, these are not guaranteed. The delivery of this safety datasheet does not free the recipient of the product from his own responsibility to follow the relevant rules and regulations concerning this product.
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This data sheet contains changes from the previous version in section(s): 3
This data sheet contains changes from the previous version in section(s): 14