according to 1907/2006/EC, Article 31



Revision: 02.05.2023

Printing date 02.05.2023

Version number 9 (replaces version 8)

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

- · 1.1 Product identifier
- · Trade name: 4CR 5450 TITANIUM SHELL CLEAR
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the mixture Paint
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

4CR International GmbH & Co. KG

Donnerstrasse 10b 22763 Hamburg

Tel.: +49 (0) 40 69 60 99 30 E-Mail: Info@4CR.com

www.4CR.com

· 1.4 Emergency telephone number: +49(0)700 24112112 (CRM)

## SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



STOT SE 3 H336 May cause drowsiness or dizziness.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

· Hazard pictograms





GHS02

2 GHS07

- · Signal word Danger
- · Hazard-determining components of labelling:

n-Butyl acetate

2-Methoxy-1-methylethyl acetate

acetone

· Hazard statements

H225 Highly flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

· Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

*P103 Read carefully and follow all instructions.* 

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

(Contd. on page 2)

according to 1907/2006/EC, Article 31



Revision: 02.05.2023

Printing date 02.05.2023

Version number 9 (replaces version 8)

#### Trade name: 4CR 5450 TITANIUM SHELL CLEAR

(Contd. of page 1)

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water [or shower].

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

- · 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:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	n-Butyl acetate    Flam. Liq. 3, H226;   STOT SE 3, H336, EUH066	≤20%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-Methoxy-1-methylethyl acetate  Flam. Liq. 3, H226; STOT SE 3, H336	10-25%
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49	acetone  Flam. Liq. 2, H225;  Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	5-<10%
ELINCS: 432-430-3 Reg.nr.: 01-0000017860-69	reaction mass of: N,N'-ethane-1,2-diylbis(hexanamide); 12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl]octadecanamide; N,N'-ethane-1,2-diylbis(12-hydroxyoctadecanamide) Aquatic Chronic 4, H413	<2.5%

<sup>·</sup> Additional information: For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

- 4.1 Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · 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.

(Contd. on page 3)

according to 1907/2006/EC, Article 31



Revision: 02.05.2023

Printing date 02.05.2023

Version number 9 (replaces version 8)

Trade name: 4CR 5450 TITANIUM SHELL CLEAR

(Contd. of page 2)

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 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

Wear protective equipment. Keep unprotected persons away.

- · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

· 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

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: Store in a cool location.
- Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

- · Storage class: 3
- · 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 ti	hat require n	nonitoring at t	he workplace:
--------------------	-----------------	---------------	-----------------	---------------

### 123-86-4 n-Butyl acetate

WEL Short-term value: 966 mg/m³, 200 ppm Long-term value: 724 mg/m³, 150 ppm

#### 108-65-6 2-Methoxy-1-methylethyl acetate

WEL Short-term value: 548 mg/m³, 100 ppm Long-term value: 274 mg/m³, 50 ppm

Sk

(Contd. on page 4)

according to 1907/2006/EC, Article 31



Revision: 02.05.2023

Printing date 02.05.2023

Version number 9 (replaces version 8)

Trade name: 4CR 5450 TITANIUM SHELL CLEAR

(Contd. of page 3)

#### 67-64-1 acetone

WEL Short-term value: 3620 mg/m³, 1500 ppm Long-term value: 1210 mg/m³, 500 ppm

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

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.

#### · Hand protection

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation



Protective gloves (EN 374)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Breakthrough time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection



Tightly sealed goggles

#### SECTION 9: Physical and chemical properties

- · 9.1 Information on basic physical and chemical properties
- · General Information

• Physical state Fluid

· Colour: According to product specification

Odour: Characteristic
 Odour threshold: Not determined.
 Melting point/freezing point: Undetermined.

Boiling point or initial boiling point and boiling

range 124 °C

· Flammability Highly flammable.

· Lower and upper explosion limit

*Lower:* 1.2 Vol % *Upper:* 7.5 Vol %

(Contd. on page 5)

according to 1907/2006/EC, Article 31



Printing date 02.05.2023 Version number 9 (replaces version 8)

Trade name: 4CR 5450 TITANIUM SHELL CLEAR

(Contd. of page 4)

Revision: 02.05.2023

• Flash point: -17 °C (DIN EN ISO 1523:2002)

· Auto-ignition temperature:
 · Decomposition temperature:
 · pH
 315 °C (DIN 51794)
 Not determined.
 Not determined.

· Viscosity:

· Kinematic viscosity at 20 °C >60 s (ISO 6 mm)
· Dynamic: Not determined.

·Solubility

· water: Not miscible or difficult to mix.

• Partition coefficient n-octanol/water (log value) Not determined. • Vapour pressure at 20 °C: 233 hPa

· Density and/or relative density

• **Density at 20 °C:** 1.207 g/cm³ (DIN EN ISO 2811-1)

Relative densityVapour densityNot determined.Not determined.

9.2 Other information

· Appearance:

· Form: Fluid

· Important information on protection of health and

environment, and on safety.

• Ignition temperature: Product is not selfigniting.

Explosive properties: Product is not explosive. However, formation of

explosive air/vapour mixtures are possible.

· Solvent content:

*· VOC (EC)* 35.31 % *· Solids content (weight-%):* 64.4 %

Change in condition

· Evaporation rate Not determined.

Information with regard to physical hazard classes

Explosives Void
Flammable gases Void
Aerosols Void
Oxidising gases Void
Gases under pressure Void

· Flammable liquids Highly flammable liquid and vapour.

Flammable solids
Self-reactive substances and mixtures
Pyrophoric liquids
Pyrophoric solids
Self-heating substances and mixtures
Substances and mixtures, which emit flammable

Substances and mixtures, which emit flammable gases in contact with water Void
Oxidising liquids Void
Oxidising solids Void
Organic peroxides Void
Corrosive to metals Void

### SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability

· Desensitised explosives

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Void

· 10.3 Possibility of hazardous reactions No dangerous reactions known.

(Contd. on page 6)

according to 1907/2006/EC, Article 31



Revision: 02.05.2023

Printing date 02.05.2023

Version number 9 (replaces version 8)

#### Trade name: 4CR 5450 TITANIUM SHELL CLEAR

(Contd. of page 5)

- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: Carbon monoxide

### SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure May cause drowsiness or dizziness.

### SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.
- · 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

#### **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- · Recommendation:

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

### SECTION 14: Transport information

· 14.1 UN number or ID number · ADR, IMDG, IATA	UN1263	
· 14.2 UN proper shipping name		
· ADR	UN1263 PAINT	
· IMDG. IATA	PAINT	

(Contd. on page 7)

GB -

according to 1907/2006/EC, Article 31



Revision: 02.05.2023

Printing date 02.05.2023

Version number 9 (replaces version 8)

Trade name: 4CR 5450 TITANIUM SHELL CLEAR

(Contd. of page 6) · 14.3 Transport hazard class(es)  $\cdot ADR$ 3 (F1) Flammable liquids. · Class · Label · IMDG, IATA · Class 3 Flammable liquids. · Label 3 · 14.4 Packing group · ADR, IMDG, IATA II· 14.5 Environmental hazards: Not applicable. Warning: Flammable liquids. · 14.6 Special precautions for user · Hazard identification number (Kemler code): 33 F-E,S-E· EMS Number: · Stowage Category В · 14.7 Maritime transport in bulk according to IMO instruments Not applicable. · Transport/Additional information:  $\cdot$  ADR · Limited quantities (LQ) 5L· Transport category 2 · Tunnel restriction code D/E $\cdot$  IMDG · Limited quantities (LQ) 5L· UN "Model Regulation": UN 1263 PAINT, 3, II

#### SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- · National regulations:
- · Additional classification according to Decree on Hazardous Materials, Annex II:

	,
Class	Share in %
NK	25-50

(Contd. on page 8)

according to 1907/2006/EC, Article 31

4<sub>CR</sub>

Revision: 02.05.2023

Printing date 02.05.2023

Version number 9 (replaces version 8)

Trade name: 4CR 5450 TITANIUM SHELL CLEAR

(Contd. of page 7)

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

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.

### · Relevant phrases

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H413 May cause long lasting harmful effects to aquatic life.

EUH066 Repeated exposure may cause skin dryness or cracking.

#### · Classification according to Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

#### · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4

\* Data compared to the previous version altered.

GB -