according to 1907/2006/EC, Article 31



Revision: 03.05.2023

Printing date 03.05.2023

Version number 41 (replaces version 40)

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

- · 1.1 Product identifier
- · Trade name: 4CR 7460 2K-HS-Löser-Spray
- · 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 Thinner, Diluent
- · 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



Aerosol 1

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



corrosion

Eye Dam. 1 H318 Causes serious eye damage.



Skin Irrit. 2	H315	Causes skin irritation.
STOT SE 3	H336	May cause drowsiness or dizziness.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Aquatic Chronic .	3 H412	Harmful to aquatic life with long lasting effects.

- · 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

602 GHS05

· **Signal word** Danger

· Hazard-determining components of labelling:

Cyclohexanone

acetone

Ethyl acetate

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

(Contd. on page 2)

according to 1907/2006/EC, Article 31



Revision: 03.05.2023

Printing date 03.05.2023

Version number 41 (replaces version 40)

Trade name: 4CR 7460 2K-HS-Löser-Spray

(Contd. of page 1)

· Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H315 Causes skin irritation.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

· 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.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

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

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

regulations.

· Additional information:

Buildup of explosive mixtures possible without sufficient ventilation.

- · 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: 115-10-6 EINECS: 204-065-8 Reg.nr.: 01-2119472128-37	dimethyl ether Flam. Gas 1A, H220; Press. Gas (Liq.), H280	25-50%
EINECS: 200-662-2	acetone	25-50%
CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46	Ethyl acetate Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	10-25%
EINECS: 215-535-7	Xylene → Flam. Liq. 3, H226; → STOT RE 2, H373; Asp. Tox. 1, H304; → Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	5-<10%
	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics ♦ Flam. Liq. 2, H225; ♦ Asp. Tox. 1, H304; ♦ Aquatic Chronic 2, H411; ♦ STOT SE 3, H336, EUH066	2.5-<10%
CAS: 108-94-1 EINECS: 203-631-1 Reg.nr.: 01-2119453616-35	Cyclohexanone ♠ Flam. Liq. 3, H226; ♠ Eye Dam. 1, H318; ♠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	≥3-<10%
CAS: 100-41-4 EINECS: 202-849-4 Reg.nr.: 01-2119489370-35	Ethylbenzene Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	<2.5%

(Contd. on page 3)

according to 1907/2006/EC, Article 31

4cR

Revision: 03.05.2023

Printing date 03.05.2023

Version number 41 (replaces version 40)

Trade name: 4CR 7460 2K-HS-Löser-Spray

· 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. Then consult a doctor.
- · After swallowing: Seek immediate medical advice.
- 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 No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

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 product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

Use neutralising agent.

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.

Information about fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material.

(Contd. on page 4)

Safety data sheet according to 1907/2006/EC, Article 31



Revision: 03.05.2023

Printing date 03.05.2023

Version number 41 (replaces version 40)

Trade name: 4CR 7460 2K-HS-Löser-Spray

(Contd. of page 3)

Keep ignition sources away - Do not smoke.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Observe official regulations on storing packagings with pressurised containers.

- · Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions:

Do not seal receptacle gas tight.

Keep container tightly sealed.

- · Storage class: 2 B
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure co	phirois/personal protection
0.1 Control manage stage	

Ingre	dients with limit values that require monitoring at the workplace:
115-1	0-6 dimethyl ether
WEL	Short-term value: 958 mg/m³, 500 ppm
	Long-term value: 766 mg/m³, 400 ppm
67-64	-1 acetone
WEL	Short-term value: 3620 mg/m³, 1500 ppm
	Long-term value: 1210 mg/m³, 500 ppm
141-7	8-6 Ethyl acetate
WEL	Short-term value: 1468 mg/m³, 400 ppm
	Long-term value: 734 mg/m³, 200 ppm
1330	20-7 Xylene
WEL	Short-term value: 441 mg/m³, 100 ppm
	Long-term value: 220 mg/m³, 50 ppm
	Sk; BMGV
108-9	4-1 Cyclohexanone
WEL	Short-term value: 82 mg/m³, 20 ppm
	Long-term value: 41 mg/m³, 10 ppm
	Sk, BMGV
	1-4 Ethylbenzene
WEL	Short-term value: 552 mg/m³, 125 ppm
	Long-term value: 441 mg/m³, 100 ppm
100	Sk
	2-2 4-hydroxy-4-methylpentan-2-one
WEL	Short-term value: 362 mg/m³, 75 ppm
	Long-term value: 241 mg/m³, 50 ppm
Ingre	dients with biological limit values:
1330	20-7 Xylene
BMG	V 650 mmol/mol creatinine
	Medium: urine

(Contd. on page 5)

according to 1907/2006/EC, Article 31



Revision: 03.05.2023

Printing date 03.05.2023

Version number 41 (replaces version 40)

Trade name: 4CR 7460 2K-HS-Löser-Spray

(Contd. of page 4)

108-94-1 Cyclohexanone

BMGV 2 mmol/mol creatinine

Medium: urine

Sampling time: post shift Parameter: cyclohexanol

- · 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:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· 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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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.

Aerosol

· Eve/face protection

Safety glasses



Tightly sealed goggles

SECTION 9: Physical and chemical properties

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

· Colour: Colourless · Odour: Characteristic

(Contd. on page 6)

according to 1907/2006/EC, Article 31



Revision: 03.05.2023

Printing date 03.05.2023 Version number 41 (replaces version 40)

Trade name: 4CR 7460 2K-HS-Löser-Spray

(Contd. of page 5)

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

· Boiling point or initial boiling point and boiling

range -24.9 °C • Flammability Not applicable.

· Lower and upper explosion limit

 • Lower:
 2.1 Vol % (141-78-6 Ethyl acetate)

 • Upper:
 18.6 Vol % (115-10-6 dimethyl ether)

• Flash point: <1 °C (DIN 53213)

· Auto-ignition temperature: 235 °C (DIN 51794, 115-10-6 dimethyl ether)

Decomposition temperature: Not determined.pH Not determined.

· Viscosity:

Kinematic viscosityDynamic:Not determined.Not determined.

·Solubility

• water: Not miscible or difficult to mix.

· Partition coefficient n-octanol/water (log value) Not determined.

· Vapour pressure at 20 °C: 5,200 hPa (115-10-6 dimethyl ether)

· Density and/or relative density

• **Density at 20 °C:** 0.766 g/cm³ (DIN 53217)

Relative densityVapour densityNot determined.Not determined.

· 9.2 Other information

· Appearance:

· Form: Aerosol

· 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) 99.16 % *· Solids content (weight-%):* 0.8 %

· Change in condition

· Evaporation rate Not applicable.

· Information with regard to physical hazard classes

Explosives VoidFlammable gases Void

· Aerosols Extremely flammable aerosol. Pressurised container:

May burst if heated.

Void · Oxidising gases Void · Gases under pressure · Flammable liquids Void · Flammable solids Void · Self-reactive substances and mixtures Void · Pyrophoric liquids Void · Pyrophoric solids Void · Self-heating substances and mixtures Void

· Substances and mixtures, which emit flammable

gases in contact with water Void
Oxidising liquids Void
Oxidising solids Void
Organic peroxides Void

(Contd. on page 7)

according to 1907/2006/EC, Article 31



Revision: 03.05.2023

Printing date 03.05.2023

Version number 41 (replaces version 40)

Trade name: 4CR 7460 2K-HS-Löser-Spray

Contd. of page 6)

Corrosive to metals
Desensitised explosives

Void
Void

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 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.
- · Skin corrosion/irritation Causes skin irritation.
- · Serious eye damage/irritation Causes serious eye damage.
- · STOT-single exposure May cause drowsiness or dizziness.
- · Aspiration hazard May be fatal if swallowed and enters airways.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

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

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

-GB

Safety data sheet according to 1907/2006/EC, Article 31



Revision: 03.05.2023

Printing date 03.05.2023

Version number 41 (replaces version 40)

Trade name: 4CR 7460 2K-HS-Löser-Spray

(Contd. of page 7)

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: Disposal must be made according to official regulations.

· 14.1 UN number or ID number · ADR, IMDG, IATA	UN1950
· 14.2 UN proper shipping name · ADR · IMDG	UN1950 AEROSOLS AEROSOLS
· IATA	AEROSOLS, flammable
· 14.3 Transport hazard class(es) · ADR	
· Class · Label	2 5F Gases. 2.1
· Class	2.1 Gases.
· Label	2.1 Gases. 2.1
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	No
14.6 Special precautions for user	Warning: Gases.
· Hazard identification number (Kemler code): · EMS Number:	- F-D,S-U
Stowage Code	SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of litre: Category A. For AEROSOLS with a capacity about 1 litre: Category B. For WASTE AEROSOLS: Category, C. Clear of living quarters.
· Segregation Code	SG69 For AEROSOLS with a maximum capacity of litre: Segregation as for class 9. Stow "separated from" class except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class For WASTE AEROSOLS:

according to 1907/2006/EC, Article 31



Revision: 03.05.2023

Printing date 03.05.2023

Version number 41 (replaces version 40)

Trade name: 4CR 7460 2K-HS-Löser-Spray

	(Contd. of page 8
	Segregation as for the appropriate subdivision of class 2.
· 14.7 Maritime transport in bulk accord	ling to IMO
instruments	Not applicable.
· Transport/Additional information:	
·ADR	
· Limited quantities (LQ)	IL
· Transport category	2
· Tunnel restriction code	D
·IMDG	
· Limited quantities (LQ)	1L
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1

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 P3a FLAMMABLE AEROSOLS
- \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- · National regulations:
- · Additional classification according to Decree on Hazardous Materials, Annex II:

Class	Share in %
NK	50-100

· 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

- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

(Contd. on page 10)

Safety data sheet according to 1907/2006/EC, Article 31



Revision: 03.05.2023

Printing date 03.05.2023

Version number 41 (replaces version 40)

Trade name: 4CR 7460 2K-HS-Löser-Spray

(Contd. of page 9)

· 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:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

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. Gas 1A: Flammable gases - Category 1A

Aerosol 1: Aerosols – Category 1

Press. Gas (Liq.): Gases under pressure - Liquefied gas

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids - Category 3

Acute Tox. 4: Acute toxicity - Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

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

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

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard - Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

* * Data compared to the previous version altered.