



NOWA KRC 740 10 L D/H/HR

WM 0713322

Order number: 0713322

Version 3.1

Revision Date 11.11.2018

Print Date 12.03.2020

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

1.1 Product identifier

Trade name : NOWA KRC 740 10 L D/H/HR
Identification number : 40000029

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

1.3 Details of the supplier of the safety data sheet

Company : tana Chemie GmbH
Rheinallee 96
55120 Mainz
Telephone : +49613196403
Telefax : +4961319642414
E-mail address : Produktsicherheit@werner-mertz.com
Responsible/issuing person
Contact person : Product development / product safety

1.4 Emergency telephone number

+49(0)6131-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Corrosive to metals, Category 1 H290: May be corrosive to metals.
Skin corrosion, Category 1A H314: Causes severe skin burns and eye damage.
Acute aquatic toxicity, Category 1 H400: Very toxic to aquatic life.
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 : H290 May be corrosive to metals.



NOWA KRC 740 10 L D/H/HR

WM 0713322

Order number: 0713322

Version 3.1

Revision Date 11.11.2018

Print Date 12.03.2020

	H314	Causes severe skin burns and eye damage.
	H411	Toxic to aquatic life with long lasting effects.
Supplemental Hazard Statements	: EUH206	Warning! Do not use together with other products. May release dangerous gases (chlorine).
Precautionary statements	: P102	Keep out of reach of children.
	Prevention:	
	P260	Do not breathe mist or vapours.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
	Response:	
	P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
	P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
	P310	
	Disposal:	
	P501	Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

potassium hydroxide
sodium hypochlorite

Additional Labelling:

Safety data sheet available on request.

2.3 Other hazards

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.
No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Aqueous solution
inorganic

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)



NOWA KRC 740 10 L D/H/HR

WM 0713322

Order number: 0713322

Version 3.1

Revision Date 11.11.2018

Print Date 12.03.2020

potassium hydroxide	1310-58-3 215-181-3 01-2119487136-33	Acute Tox. 4; H302 Skin Corr. 1A; H314 Met. Corr. 1; H290 SCL >= 5 % 1A; H314 2 - < 5 % 1B; H314 0,5 - < 2 % 2; H315 0,5 - < 2 % 2; H319	>= 5 - < 10
sodium hypochlorite	7681-52-9 231-668-3	Met. Corr. 1; H290 Skin Corr. 1B; H314 STOT SE 3; H335 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 SCL	>= 3 - < 5

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air.
If symptoms persist, call a physician.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
Protect unharmed eye.
Continue rinsing eyes during transport to hospital.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed



NOWA KRC 740 10 L D/H/HR

WM 0713322

Order number: 0713322

Version 3.1

Revision Date 11.11.2018

Print Date 12.03.2020

Symptoms : corrosive effects

Risks : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : 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, Water spray jet, Alcohol-resistant foam

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.
Evacuate personnel to safe areas.
Wear respiratory protection.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.



NOWA KRC 740 10 L D/H/HR

WM 0713322

Order number: 0713322

Version 3.1

Revision Date 11.11.2018

Print Date 12.03.2020

6.3 Methods and materials for containment and cleaning up

- Methods for cleaning up : Neutralise with acid.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8., Treat recovered material as described in the section "Disposal considerations"., Refer to section 15 for specific national regulation.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Avoid formation of aerosol. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Store in original container. Store in cool place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store at room temperature in the original container. To maintain product quality, do not store in heat or direct sunlight.
- Advice on common storage : Do not store near acids.
- Other data : No decomposition if stored and applied as directed. Protect from frost, heat and sunlight.

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

DNEL



NOWA KRC 740 10 L D/H/HR

WM 0713322

Order number: 0713322

Version 3.1

Revision Date 11.11.2018

Print Date 12.03.2020

potassium hydroxide
1310-58-3:

: End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term local effects
Value: 1 mg/m³

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term local effects
Value: 1 mg/m³

sodium hypochlorite
7681-52-9:

: End Use: Consumers
Exposure routes: Oral
Potential health effects: Long-term systemic effects
Value: 0,26 mg/kg

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term exposure, Local effects, Systemic effects
Value: 1,55 mg/m³

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Short-term exposure, Local effects, Systemic effects
Value: 3,1 mg/m³

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term exposure, Local effects, Systemic effects
Value: 1,55 mg/m³

PNEC

sodium hypochlorite
7681-52-9:

: Fresh water
Value: 0,21 mg/l

Marine water
Value: 0,042 mg/l

intermittent release
Value: 0,26 mg/l

8.2 Exposure controls

Personal protective equipment

Eye protection : Tightly fitting safety goggles

Hand protection

Material : Chemical resistant gloves made of butyl rubber or nitrile rubber



NOWA KRC 740 10 L D/H/HR

WM 0713322

Order number: 0713322

Version 3.1

Revision Date 11.11.2018

Print Date 12.03.2020

- category III according to EN 374.
- Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Remove and wash contaminated clothing before re-use.
- Respiratory protection : Not required; except in case of aerosol formation.
Recommended Filter type:
ABEK-P3-filter
- Environmental exposure controls**
- General advice : Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance : liquid
- Colour : yellow
- Odour : slight chlorine
- Odour Threshold : No data available
- pH : 12,2, Concentration: 10,00 g/l
at 20 °C
- Melting point/range : No data available
- Boiling point/boiling range : No information available.
- Flash point : Not applicable
- Evaporation rate : No data available
- Flammability (solid, gas) : No data available
- Flammability (liquids) : Not classified as supporting combustion according to the transport regulations.
- Burning rate : No data available
- Lower explosion limit : No data available
- Upper explosion limit : No data available
- Vapour pressure : No data available



NOWA KRC 740 10 L D/H/HR

WM 0713322

Order number: 0713322

Version 3.1

Revision Date 11.11.2018

Print Date 12.03.2020

Relative vapour density	: No data available
Relative density	: No data available
Density	: 1,19 g/cm ³ at 20 °C
Water solubility	: soluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions., No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions., No decomposition if used as directed.

10.4 Conditions to avoid

Conditions to avoid : Protect from frost, heat and sunlight.

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

Hazardous decomposition products : No hazardous decomposition products are known.
Other information : No hazardous decomposition products are known.



NOWA KRC 740 10 L D/H/HR

WM 0713322

Order number: 0713322

Version 3.1

Revision Date 11.11.2018

Print Date 12.03.2020

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product

Acute oral toxicity	: Acute toxicity estimate : > 2.000 mg/kg Method: Calculation method
Skin corrosion/irritation	: Extremely corrosive and destructive to tissue.
Serious eye damage/eye irritation	: May cause irreversible eye damage.
Respiratory or skin sensitisation	: No data available
Germ cell mutagenicity	: Not Rated
Carcinogenicity	: Not Rated
Reproductive toxicity	: Not Rated
STOT - single exposure	: The substance or mixture is not classified as specific target organ toxicant, single exposure.
STOT - repeated exposure	: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Aspiration toxicity	: Not Rated
Further information	: No data available

Components:

**potassium hydroxide
1310-58-3:**

Acute oral toxicity	: LD50 Rat: 273 mg/kg Acute toxicity estimate : 500 mg/kg Method: Converted acute toxicity point estimate LD50 Oral Rat, male: 333 mg/kg Method: OECD Test Guideline 425
Skin corrosion/irritation	: Result: Corrosive
Serious eye damage/eye	: Species: Rabbit



NOWA KRC 740 10 L D/H/HR

WM 0713322

Order number: 0713322

Version 3.1

Revision Date 11.11.2018

Print Date 12.03.2020

irritation	Result: Corrosive Method: OECD Test Guideline 405
Respiratory or skin sensitisation	: Species: Guinea pig Result: Did not cause sensitisation on laboratory animals.
Germ cell mutagenicity	
Genotoxicity in vitro	: Type: Ames test Test species: Salmonella typhimurium Result: negative
sodium hypochlorite 7681-52-9:	
Acute oral toxicity	: LD50 Mouse: 5.800 mg/kg
Acute dermal toxicity	: LD50 Rabbit: > 10.000 mg/kg

SECTION 12: Ecological information

12.1 Toxicity

Product:

Components:

potassium hydroxide **1310-58-3:**

Toxicity to fish	: (Pimephales promelas (fathead minnow)): 880 mg/l Exposure time: 96 h Test Type: static test LC50 (Gambusia affinis (Mosquito fish)): 80 mg/l Exposure time: 96 h LC50 (Poecilia reticulata (guppy)): 165 mg/l Exposure time: 24 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 660 mg/l Exposure time: 48 h Test Type: static test
Toxicity to algae	: EC50 : 1.337 mg/l Exposure time: 120 h
Toxicity to bacteria	: EC50 (Photobacterium phosphoreum): 22 mg/l Exposure time: 15 min
Toxicity to soil dwelling organisms	: LC50: 850 mg/kg Exposure time: 90 d



NOWA KRC 740 10 L D/H/HR

WM 0713322

Order number: 0713322

Version 3.1

Revision Date 11.11.2018

Print Date 12.03.2020

sodium hypochlorite

7681-52-9:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 1,34 mg/l
Exposure time: 96 h

LC50 (Fish): 0,06 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,07 - 0,7 mg/l
Exposure time: 24 h
Test Type: static test

EC50 (Daphnia magna (Water flea)): 0,141 mg/l
Exposure time: 48 h

M-Factor (Acute aquatic toxicity) : 10

Toxicity to bacteria : EC50 (Photobacterium phosphoreum): 100 mg/l
Exposure time: 15 min

Toxicity to fish (Chronic toxicity) : NOEC: 0,04 mg/l
Species: Menidia peninsulae (tidewater silverside)

M-Factor (Chronic aquatic toxicity) : 1

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

12.3 Bioaccumulative potential

Components:

potassium hydroxide

1310-58-3:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

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..

Components:

potassium hydroxide



NOWA KRC 740 10 L D/H/HR

WM 0713322

Order number: 0713322

Version 3.1

Revision Date 11.11.2018

Print Date 12.03.2020

1310-58-3:

Assessment

: This substance is not considered to be very persistent and very bioaccumulating (vPvB).. This substance is not considered to be persistent, bioaccumulating and toxic (PBT)..

12.6 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment., Very toxic to aquatic organisms.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

Waste Code : European Waste Catalogue
07 06 99
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

SECTION 14: Transport information

14.1 UN number

ADR : 3266
IMDG : 3266
IATA : 3266

14.2 Proper shipping name

ADR : CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
(potassium hydroxide, sodium hypochlorite solution)

IMDG : CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
(potassium hydroxide, sodium hypochlorite)

IATA : Corrosive liquid, basic, inorganic, n.o.s. Not permitted for transport

14.3 Transport hazard class

ADR : 8
IMDG : 8
IATA : 8



NOWA KRC 740 10 L D/H/HR

WM 0713322

Order number: 0713322

Version 3.1

Revision Date 11.11.2018

Print Date 12.03.2020

14.4 Packing group

ADR

Classification Code : C5
Packaging group : II
Hazard Identification Number : 80
Labels : 8
Tunnel restriction code : (E)

IMDG

Packaging group : II
Labels : 8
EmS Number : F-A, S-B

IATA

(Cargo) : Corrosive liquid, basic, inorganic, n.o.s. Not permitted for transport
Packaging group : II
Labels : 8

14.5 Environmental hazards

ADR

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA

Environmentally hazardous : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

For personal protection see section 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

according to Detergents Regulation EC 648/2004 : 5 - <15% Phosphates, <5% Chlorine-based bleaching agents

GISBAU (D) : GD 0



NOWA KRC 740 10 L D/H/HR

WM 0713322

Order number: 0713322

Version 3.1

Revision Date 11.11.2018

Print Date 12.03.2020

15.2 Chemical safety assessment

There is no data available for this product.

SECTION 16: Other information

Full text of H-Statements

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Further information

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Classification procedure:	H290	On basis of test data.
	H314	Calculation method
	H400	Calculation method
	H411	Calculation method

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECl - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

The information provided in this 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 a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or



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NOWA KRC 740 10 L D/H/HR

WM 0713322

Order number: 0713322

Version 3.1

Revision Date 11.11.2018

Print Date 12.03.2020

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.

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