



Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Version 01 Issuing Date: 2021-08-06

Review Date: 2021-08-06

1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifiers

Product name: PVP/ H₂O₂ complex 90

Brand name: WhiVidone® 90

CAS-No.: 9003-39-8, 7722-84-1

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

Identified uses: Personal care

1.3 Details of the supplier of the safety data sheet

Company: Boai NKY Pharmaceuticals Ltd.

Address: No.1888 East Wenhua Road, Boai, Jiaozuo, Henan Province, China 454450.

Tel.: +86 391 8696320

Fax: +86 391 8692950

Email address: sales@boai-nky.com

1.4 Emergency telephone number

Emergency Phone #: +86 22 58316066

2. Hazards Identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Self-heating substances and mixtures, Category 2

H252: Self-heating in large quantities; may catch fire.

Skin irritation, Category 2

H315: Causes skin irritation.

Serious eye damage, Category 1

H318: Causes serious eye damage.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



Hazard pictograms:

Signal word:

Danger

Hazard statements:

H252 Self-heating in large quantities; may catch fire.

H315 Causes skin irritation

H318 Causes serious eye damage

Precautionary statements:

Prevention:

P264 Wash skin thoroughly after handling.

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

Response:



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P305 + P351 + P338 + P310 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.

Storage:

P407 Maintain air gap between stacks or pallets.

P403 + P235 Store in a well-ventilated place. Keep cool.

P420 Store separately.

P410 Protect from sunlight.

Hazardous components which must be listed on the label:

Hydrogen peroxide

Precautionary statements : Keep dust/air mixtures away from ignition sources.

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.

Additional advice

No information available.

3. Composition/Information on Ingredients

3.1 Mixtures

Chemical nature : organic

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Hydrogen peroxide	7722-84-1 231-765-0 01-2119485845-22-0032	Ox. Liq.1; H271 Acute Tox.4; H302 Acute Tox.4; H332 Skin Corr.1A; H314 STOT SE3; H335 Aquatic Chronic3; H412	>= 15,00 - < 20,00

For explanation of abbreviations see section 16.

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.



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- If inhaled : Do not leave the victim unattended
Move to fresh air.
IF INHALED: Call a POISON CENTER/ doctor if you feel unwell.
Keep patient warm and at rest.
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.
If on skin, rinse well with water.
Wash contaminated clothing before re-use.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
- If swallowed : Obtain medical attention.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms: Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:
irritation (nose, throat, airways)
Lung irritation
bronchitis
Headache
Dizziness
lung edema (fluid buildup in the lung tissue)
seizures
Convulsions
- Risks: Causes skin irritation
Causes serious eye damage

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No hazards which require special first aid measures.

5. Firefighting Measures

5.1 Extinguishing media:

Suitable extinguishing media:

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



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Water spray

Foam

Alcohol-resistant foam

Carbon dioxide (CO₂)

Dry chemica

Unsuitable extinguishing media:

High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting:

Organic dusts at sufficient concentration can form explosive mixtures in air.

Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products:

Carbon dioxide (CO₂)

Carbon monoxide

Nitrogen oxides (NO_x)

Organic acids

5.3 Advice for firefighters

Special protective equipment for firefighters:

In the event of fire, wear self-contained breathing apparatus.

Specific extinguishing methods:

Product is compatible with standard fire-fighting agents.

Further information:

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use a water spray to cool fully closed containers.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions:

Evacuate personnel to safe areas.

Remove all sources of ignition.

Use personal protective equipment.

Ensure adequate ventilation.

Avoid dust formation.

Avoid breathing dust.

Material can create slippery conditions.

Persons not wearing protective equipment should be excluded from area of spill until



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clean-up has been completed.

Comply with all applicable federal, state, and local regulations.

6.2 Environmental precautions

Environmental precautions:

Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up:

Methods for cleaning up:

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For further information see Section 8 and Section 13 of the safety data sheet.

7. Handling and Storage

7.1 Precautions for safe handling

Advice on safe handling:

Open drum carefully as content may be under pressure.

Avoid dust formation.

Provide sufficient air exchange and/or exhaust in work rooms.

Do not breathe vapours/dust.

Do not smoke.

Ensure all equipment is electrically grounded and bonded before beginning transfer operations.

The material can accumulate static charge and can therefore cause electrical ignition of flammable atmospheres.

Container hazardous when empty.

Avoid contact with skin and eyes.

Smoking, eating and drinking should be prohibited in the application area.

For personal protection see section 8.

Dispose of rinse water in accordance with local and national regulations.

Maintain good housekeeping. Do not permit dust layers to accumulate, for example, on floors, ledges, and equipment, in order to avoid any potential for dust explosion hazards.

Advice on protection against fire and explosion:

Avoid dust formation. Take measures to prevent the build up of electrostatic charge. Keep away from combustible material. Keep away from open flames, hot surfaces and sources of ignition. Provide appropriate exhaust ventilation at places where dust is formed.

Hygiene measures:

Avoid breathing dust. Wash hands before breaks and at the end of workday. When using do not eat or



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drink. When using do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers:

Keep container tightly closed in a dry and well-ventilated place. Store in cool place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. No smoking.

Other data:

Keep in a dry place. No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s):

No data available

8. Exposure Controls/Personal Protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Hydrogen peroxide	7722-84-1	TLV 8 hr	1 ppm 1,4 mg/m ³	BE OEL

8.2 Exposure controls

Engineering measures

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Provide appropriate exhaust ventilation at places where dust is formed.

Personal protective equipment

Eye protection:

Wear chemical splash goggles and face shield to protect eyes and skin from airborne dust.

Maintain eye wash station in immediate work area.

Use eye protection according to EN 166.

Hand protection Material:

butyl-rubber

Break through time:

480 min

Glove thickness:

> 0,5 mm

Remarks:

The exact break through time can be obtained from the protective glove producer and this has to be



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observed. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection:

Protective clothing complying with EN 13688.

Safety shoes complying with EN ISO 20345.

Wear as appropriate:

Safety shoes

Dust impervious protective suit

Flame-resistant clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Discard gloves that show tears, pinholes, or signs of wear.

Respiratory protection:

In the case of dust or aerosol formation use respirator with an approved filter within the capabilities of the respirator/filter combination.

Where concentrations are above recommended limits or are unknown, or a cartridge type respirator is not adequate, wear a positive-pressure supplied-air respirator.

Respiratory protection complying with EN 136.

Respiratory protection complying with EN 140.

Respiratory protection complying with EN 14387.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance	powder
Odour	No data available
Odour threshold	No data available
pH	6,0 - 7,0 Concentration: 1
Melting point/freezing point	No data available
Boiling point/boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper explosion limit	No data available
Lower explosion limit	No data available
Vapour pressure	No data available



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Relative vapour density	No data available
Relative density	No data available
Density	1 g/cm ³ (20 °C)
Water solubility	No data available
Solubility in other solvents	No data available
Partition coefficient: n-octanol/water	No data available
Decomposition temperature	No data available
Viscosity, dynamic	No data available
Viscosity, kinematic	No data available
Oxidizing properties	The substance or mixture is not classified as oxidizing.

9.2 Other information

Self-heating substances	The substance or mixture is classified as self heating with the category 2.
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10. Stability and Reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions:

Hazardous reactions : Dust may form explosive mixture in air.

10.4 Conditions to avoid

Conditions to avoid:

Keep away from heat, flame, sparks and other ignition sources.

Avoid heat, open flame, and prolonged storage at elevated temperatures.

10.5 Incompatible materials

Materials to avoid:

Combustible material

Copper

Cyanides

Metals

metal salts

Organic materials

Reducing agents

Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products :

Carbon monoxide

Carbon dioxide (CO₂)



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Nitrogen oxides (NOx)

11. Toxicological Information

11.1 Information on toxicological effects

Information on likely routes of exposure:

Inhalation

Skin contact

Eye Contact

Ingestion

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity:

LD50 (Rat): > 5.000 mg/kg

Remarks: Based on similar product.

Remarks: Hydrogen peroxide ingestion can cause irritation of the gastrointestinal system with possible abdominal pain, nausea, vomiting and diarrhea. Large ingestions can cause rapid release of oxygen which may expand the esophagus or stomach resulting in severe damage (bleeding, ulceration or perforation).

Components:

Hydrogen peroxide

Acute oral toxicity:

LD50 (Rat, male): 1.026 mg/kg

LD50 (Rat, female): 694 mg/kg

Acute inhalation toxicity:

LC50 (Rat): > 1 - < 5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity:

LD50 (Rat): > 2.000 mg/kg

Assessment: Not classified as acutely toxic by dermal absorption under GHS.

Remarks: No mortality observed at this dose.

Skin corrosion/irritation

Causes skin irritation.

Product:

Species: Rabbit

Result: Irritating to skin.

Remarks: May cause skin irritation and/or dermatitis.

Components:



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Hydrogen peroxide

Result: Corrosive after 3 minutes or less of exposure

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Species: Rabbit

Result: Corrosive

Remarks: May cause irreversible eye damage., Eye effects may be delayed.

Components:

Hydrogen peroxide

Result: Corrosive

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Components:

Hydrogen peroxide

Genotoxicity in vitro:

Test Type: Ames test

Result: Positive results were obtained in some in vitro tests.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

Components:

Hydrogen peroxide

Target Organs: Respiratory Tract

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

Product:



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Remarks: No data available

12. Ecological Information

12.1 Toxicity

Components:

Hydrogen peroxide

Toxicity to fish:

LC50 (Pimephales promelas (fathead minnow)): 16,4 mg/l

Exposure time: 96 h

Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates:

LC50 (Daphnia magna (Water flea)): 2,4 mg/l

Exposure time: 48 h

Test Type: semi-static test

Toxicity to algae:

EC50 (Skeletonema costatum (marine diatom)): 1,38 mg/l

End point: Growth inhibition

Exposure time: 72 h

Test Type: static test

NOEC (Skeletonema costatum (marine diatom)): 0,63 mg/l

End point: Growth inhibition

Exposure time: 72 h

Test Type: static test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):

NOEC : 0,63 mg/l

Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: flow-through test

12.2 Persistence and degradability

Product:

Biodegradability:

Result: Not readily biodegradable.

Components:

Hydrogen peroxide

Biodegradability:

Result: The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil



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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.

12.6 Other adverse effects

Product:

Additional ecological information:

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life.

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.

Send to a licensed waste management company.

Contaminated packaging:

Empty remaining contents.

Dispose of as unused product.

Empty containers should be taken to an approved waste handling site for recycling or disposal.

Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

14. Transport Information

14.1 UN number

ADN: UN3088

ADR: UN3088

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: UN3088

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: UN3088

INTERNATIONAL MARITIME DANGEROUS GOODS: UN3088

RID: UN3088

14.2 UN proper shipping name

ADN: SELF-HEATING SOLID, ORGANIC, N.O.S. (HYDROGEN PEROXIDE)

ADR: SELF-HEATING SOLID, ORGANIC, N.O.S. (HYDROGEN PEROXIDE)

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Self-heating solid, organic, n.o.s. (HYDROGEN PEROXIDE)

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Self-heating solid, organic, n.o.s. (HYDROGEN PEROXIDE)



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INTERNATIONAL MARITIME DANGEROUS GOODS: SELF-HEATING SOLID, ORGANIC, N.O.S. (HYDROGEN PEROXIDE)

RID: SELF-HEATING SOLID, ORGANIC, N.O.S. (HYDROGEN PEROXIDE)

14.3 Transport hazard class(es)

ADN: 4.2

ADR: 4.2

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: 4.2

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: 4.2

INTERNATIONAL MARITIME DANGEROUS GOODS: 4.2

RID: 4.2

14.4 Packing group

ADN: II

ADR: II

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: II

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: II

INTERNATIONAL MARITIME DANGEROUS GOODS: II

RID: II

14.5 Environmental hazards

ADN: Not applicable

ADR: Not applicable

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not applicable

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not applicable

INTERNATIONAL MARITIME DANGEROUS GOODS: Not applicable

RID: Not applicable

14.6 Special precautions for user

Not applicable

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

Ship Type: Not applicable

Hazard code(s): Not applicable

Pollutant Category: Not applicable

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

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

REACH - List of substances subject to authorisation (Annex XIV):



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Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer:

Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants:

Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals:

Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII):

Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances:

Not applicable

The components of this product are reported in the following inventories:

DSL : All components of this product are on the Canadian DSL

AICS : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TCSI : On the inventory, or in compliance with the inventory

TSCA : On TSCA inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA) - On or in compliance with the active portion of the TSCA inventory

15.2 Chemical safety assessment

No data available

16 Other Information

Classification procedure:

H252	Self-heating in large quantities; may catch fire.	Based on product data or assessment
H315	Causes skin irritation.	Based on product data or assessment
H318	Causes serious eye damage.	Based on product data or assessment

Full text of H-Statements

H271 May cause fire or explosion; strong oxidizer.

H302 Harmful if swallowed.



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H314 Causes severe skin burns and eye damage.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

Other information:

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists

BEI : Biological Exposure Index

CAS : Chemical Abstracts Service (Division of the American Chemical Society).

CMR : Carcinogenic, Mutagenic or Toxic for Reproduction

FG : Food grade

GHS : Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA : International Air Transport Association.

IATA-DGR : Dangerous Goods Regulation by the “International Air Transport Association” (IATA).

ICAO : International Civil Aviation Organization

ICAO-TI (ICAO) : Technical Instructions by the “International Civil Aviation Organization”

IMDG : International Maritime Code for Dangerous Goods

ISO : International Organization for Standardization

logPow : octanol-water partition coefficient

LCxx : Lethal Concentration, for xx percent of test population

LDxx : Lethal Dose, for xx percent of test population.

ICxx : Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx

N.O.S.: Not Otherwise Specified

OECD : Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit

P-Statement : Precautionary Statement

PBT : Persistent , Bioaccumulative and Toxic

PPE : Personal Protective Equipment

STEL : Short-term exposure limit

STOT : Specific Target Organ Toxicity

TLV : Threshold Limit Value



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TWA : Time-weighted average

vPvB : Very Persistent and Very Bioaccumulative

WEL : Workplace Exposure Level

GAM : Water Hazard Class for the Netherlands

ADR : Agreement concerning the International Carriage of Dangerous Goods by Road.

ADNR: Regulation for the Carriage of Dangerous Substances on the Rhine

CLP : Classification, Labelling and Packaging

CSA : Chemical Safety Assessment

CSR : Chemical Safety Report

DNEL : Derived No Effect Level.

EINECS : European Inventory of Existing Commercial Chemical Substances.

ELINCS : European List of Notified Chemical Substances

GV: Exposure limits (DK)

PEC : Predicted Effect Concentration

PEL : Permissible Exposure Limits

PNEC : Predicted No Effect Concentration

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

RID : Regulation Concerning the International Transport of Dangerous Goods by Rail

WGK : German Water Hazard Class

Further information

The above information is believed to be correct, but does not intend to be all-inclusive and shall be used only as a guide. This material safety data sheet is based on our current knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any assurances on product properties and does not constitute a contractual legal relationship.

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