

JINWANG EUROPE Printing date 01.02.2017

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Trade name: FERRIC NITRATE SOLUTION

Classificatio	(Contd. of page 1)
Classificatio The classific data.	ation is according to the latest editions of the EU-lists, and extended by company and literature
Label eleme	nts
Labelling ac	cording to Regulation (EC) No 1272/2008
The product	is classified and labelled according to the CLP regulation.
Hazard pict	ograms
GHS05 (GHS07
Signal word	Danger
Hazard-dete	rmining components of labelling:
Ferric Nitrate	nonahydrate
Hazard state	ements
H314 Cause	s severe skin burns and eye damage.
H335 May c	ause respiratory irritation.
Precautiona	ry statements
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P303+P361	+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351	+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
1 505 11 551	present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
1 501	regulations.
Other hazar	
-	BT and vPvB assessment
PBT: Not ap	

• **vPvB:** Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous compon	ents:	
CAS: 7782-61-8	Ferric Nitrate Nonahydrate	41%
EINECS: 233-899-5	EC R35; Xi R41	
	Skin Corr. 1B, H314; Eye Dam. 1, H318	
CAS: 7697-37-2	nitric acid	0-3%
EINECS: 231-714-2	$\mathbf{E}C R35; \mathbf{A}O R8$	
	Ox. Liq. 3, H272; OSkin Corr. 1A, H314	
CAS: 7732-18-5	water, distilled, conductivity or of similar purity	56-59%
EINECS: 231-791-2		
· Additional informa	tion: For the wording of the listed risk phrases refer to section 16	

Additional information: For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- · Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.

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- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing:

Do not induce vomiting; call for medical help immediately.

- Drink plenty of water and provide fresh air. Call for a doctor immediately.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 Firefighting measures

- · Extinguishing media
- · Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture Nitrogen oxides (NOx)
- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- *Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.*
- · Environmental precautions:
- Dilute with plenty of water.
- Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Use neutralizing agent.
- Dispose contaminated material as waste according to item 13.
- Ensure adequate ventilation.
- 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.

7 Handling and storage

- · Handling:
- · 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: Protect from heat.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
- Keep container tightly sealed.
- Protect from heat and direct sunlight.
- Recommended storage temperature: Storage temperature : Room temperature

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· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

- · Control parameters
- · Ingredients with limit values that require monitoring at the workplace:
- 7697-37-2 nitric acid

WEL Short-term value: 2.6 mg/m³, 1 ppm

• Additional information: The lists valid during the making were used as basis.

- · Exposure controls
- · 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 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.



Suitable respiratory protective device recommended.

· Protection of hands:



Protective gloves

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

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.

· Penetration time of glove material

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

• Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

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Information on basic physical a	and chemical properties
General Information Appearance:	
Form:	Liquid
Colour:	Dark brown
Odour:	Acidic
pH-value at 20 °C:	< 2
Change in condition	
Melting point/Melting range:	
Boiling point/Boiling range:	109 °C
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	
Decomposition temperature:	Not determined.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Not determined.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure at 20 °C:	23 hPa
Density at 20 °C:	1.3-1.5 g/cm ³
Solubility in / Miscibility with	
water at 20 °C:	835 g/l
Solvent content:	
Organic solvents:	0.0 %
Water:	57.0 %
VOC (EC)	0.00 %
Solids content:	41.0 %
Other information	No further relevant information available.

10 Stability and reactivity

- · Reactivity
- Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid Heat
- · Incompatible materials:
- Oxidizing materials
- Strong Bases
- Reducing agents
- · Hazardous decomposition products: Nitrogen oxides (NOx)

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11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- · LD/LC50 values relevant for classification:
- *Oral LD50* >3000 mg/kg (rat)

· Primary irritant effect:

- on the skin: Caustic effect on skin and mucous membranes.
- on the eye: Strong caustic effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Corrosive Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 Ecological information

· Toxicity

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- Other information: Chronic toxicity / fish / NOEL = 10 mg / L
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil Very soluble: Sub ultimate Water
- Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Discharge into drains or the environment prohibited. Waste disposal must be in accordance with the Regulations and Orders Prefectural into force. Although empty contaminated packaging, deliver to an approved disposal.

- Uncleaned packaging:
- *Recommendation: Disposal must be made according to official regulations.*
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

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UN-Number	17/20/4
ADR, IMDG, IATA	UN3264
UN proper shipping name	
ADR	3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S
	(NITRIC ACID)
IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S (NITRIC ACID)
Transport hazard class(es)	
-	
ADR, IMDG, IATA	
where the second	
Class	8 Corrosive substances.
Label	8 Corrosive substances.
Lubei	0
Packing group	
ADR, IMDG, IATA	11
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Corrosive substances.
Danger code (Kemler):	80
EMS Number:	<i>F-A,S-B</i>
Segregation groups	Acids
	• • • • • • • • • • • • • • • • • • •
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	
MARFOL/3//8 und the IDC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	1L
Transport category	2
Tunnel restriction code	Ε
UN "Model Regulation":	UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC
~	N.O.S. (NITRIC ACID), 8, II

15 Regulatory information

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

· National regulations:

- · Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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

H272 May intensify fire; oxidiser. H314 Causes severe skin burns and eye damage.

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H318	Causes serious eye damage.
R35	Causes severe burns
1100	Risk of serious damage to eyes.
	Contact with combustible material may cause fire.
	viations and acronyms:
ADR: A	ccord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International
Carriag	e of Dangerous Goods by Road)
IMDG:	International Maritime Code for Dangerous Goods
IATA: Iı	nternational Air Transport Association
GHS: G	lobally Harmonized System of Classification and Labelling of Chemicals
	S: European Inventory of Existing Commercial Chemical Substances
	S: European List of Notified Chemical Substances
	hemical Abstracts Service (division of the American Chemical Society)
	olatile Organic Compounds (USA, EU)
	tethal concentration, 50 percent
	Lethal dose, 50 percent
	compared to the previous version altered.
Dun	i comparea to the previous version allerea.