

Safety Data Sheet according to (EC) No 1907/2006 as amended

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SDS No.: 137269

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BONDERITE M-FE 3880 IRON PHOSPHATE known as DURIDINE 3880 IT 25 KG SACK

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

1.1. Product identifier

BONDERITE M-FE 3880 IRON PHOSPHATE known as DURIDINE 3880 IT 25 KG SACK

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

Intended use:

Product for industrial surface treatment

1.3. Details of the supplier of the safety data sheet

Henkel AG & Co. KGaA

Henkelstr. 67

40589 Düsseldorf

Germany

Phone: +49 211 797 0

For Safety Data Sheet updates please visit our website https://mysds.henkel.com/index.html#/appSelection or www.henkel-adhesives.com.

SDSinfo.Adhesive@henkel.com

1.4. Emergency telephone number

The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Serious eye damage Category 1

H318 Causes serious eye damage.

Skin sensitizer Category 1

H317 May cause an allergic skin reaction.

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Contains Fatty alcohol, C12-18, ethoxylate

sodium 3-nitrobenzenesulphonate

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Signal word: Danger

Hazard statement: H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

Precautionary statement: P261 Avoid breathing dust.

Prevention P280 Wear protective gloves/eye protection.

Precautionary statement: P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

Response contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor.

2.3. Other hazards

None if used properly.

Following substances are present in a concentration ≥ the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration \geq the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No. EC Number REACH-Reg No.	Concentration	Classification	Specific Conc. Limits, M- factors and ATEs	Add. Information
Fatty alcohol, C12-18, ethoxylate 68213-23-0 500-201-8	5- < 10 %	Eye Dam. 1, H318 Acute Tox. 4, Oral, H302 Aquatic Chronic 3, H412		
sodium 3-nitrobenzenesulphonate 127-68-4 204-857-3 01-2119965131-44	1-< 5 %	Eye Irrit. 2, H319 Skin Sens. 1, H317		

If no ATE values are displayed, please refer to LD/LC50 values in Section 11. For full text of the H - statements and other abbreviations see section 16 "Other information".

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Remove person from dust-contaminated zone, seek medical advice if necessary.

Skin contact:

IF ON SKIN: Wash with plenty of soap and water. In case of adverse health effects seek medical advice.

Eye contact:

Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remain (intensive smarting, sensitivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.

Ingestion:

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Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

SKIN: Rash, Urticaria.

After eye contact: Corrosive, may cause permanent damage to eyes (impairment of vision).

4.3. Indication of any immediate medical attention and special treatment needed

See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Carbon dioxide, foam, powder

Water spray jet

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

5.2. Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in fires.

5.3. Advice for firefighters

Wear protective equipment.

Wear self-contained breathing apparatus.

Additional information:

The product itself does not burn. Any fire extinguishing action should be appropriate to the surroundings.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

Avoid dust formation.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

Remove mechanically.

Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid skin and eye contact.

Ensure that workrooms are adequately ventilated.

See advice in section 8

When diluting, always stir slowly the product into standing water.

Avoid dust formation.

Hygiene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

The workplace should be equipped with an emergency shower and eye-rinsing facility.

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7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, well-ventilated place.

7.3. Specific end use(s)

Product for industrial surface treatment

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for Germany

Ingredient [Regulated substance]	ppm	mg/m³	Value type	Short term exposure limit category / Remarks	Regulatory list
[DUSTS, NON-SPECIFIC, INHALABLE FRACTION]			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900
		1,25	Exposure limit(s):	If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
		10	Exposure limit(s):	If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental	Exposure	Value	Value			Remarks
	Compartment	period					
			mg/l	ppm	mg/kg	others	
Sodium 3-nitrobenzenesulphonate	aqua		0,5 mg/l				
127-68-4	(freshwater)						
Sodium 3-nitrobenzenesulphonate	aqua (marine		0,05 mg/l				
127-68-4	water)						
Sodium 3-nitrobenzenesulphonate	aqua		5 mg/l				
127-68-4	(intermittent						
	releases)						
Sodium 3-nitrobenzenesulphonate	sediment				2,58 mg/kg		
127-68-4	(freshwater)						
Sodium 3-nitrobenzenesulphonate	sediment				0,258		
127-68-4	(marine water)				mg/kg		
Sodium 3-nitrobenzenesulphonate	Soil				0,222		
127-68-4					mg/kg		
Sodium 3-nitrobenzenesulphonate	sewage		10000 mg/l				
127-68-4	treatment plant						
	(STP)						

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Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Sodium 3-nitrobenzenesulphonate 127-68-4	Workers	Inhalation	Long term exposure - systemic effects		5 mg/m3	
Sodium 3-nitrobenzenesulphonate 127-68-4	Workers	dermal	Long term exposure - systemic effects		97,6 mg/kg	
Sodium 3-nitrobenzenesulphonate 127-68-4	General population	dermal	Long term exposure - systemic effects		29,3 mg/kg	
Sodium 3-nitrobenzenesulphonate 127-68-4	General population	oral	Long term exposure - systemic effects		2,93 mg/kg	

Biological Exposure Indices:

None

8.2. Exposure controls:

Engineering controls:

Thorough dedusting.

Respiratory protection:

In case of dust formation, we recommend wearing of appropriate respiratory protection equipment with particle filter P (EN 14387).

This recommendation should be matched to local conditions.

Hand protection:

Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): Polychloroprene (CR; >= 1 mm thickness) or natural rubber (NR; >= 1 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Polychloroprene (CR; >= 1 mm thickness) or natural rubber (NR; >= 1 mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:

Goggles which can be tightly sealed.

Protective eye equipment should conform to EN166.

Skin protection:

Suitable protective clothing

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Delivery form solid material
Colour white
Odor no valuation
Physical state solid

Melting point

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Solidification temperature

Initial boiling point

Flammability Explosive limits Flash point

Auto-ignition temperature

Decomposition temperature

pΗ

(20 °C (68 °F); Conc.: 10,0 g/l; Solvent: Water)

Viscosity (kinematic) Solubility (qualitative)

(20 °C (68 °F); Solvent: Water)

Partition coefficient: n-octanol/water

Vapour pressure

(20 °C (68 °F)) Bulk density

Relative vapour density:

Particle characteristics

Particle characteristics
Particle characteristics

> 166 °C (> 330.8 °F)

Not applicable, Product is a solid.

292 °C (557.6 °F)

The product is not flammable. Not applicable, Product is a solid. Not applicable, Product is a solid. Not applicable, Product is a solid.

154 °C (309.2 °F);

3,50 PH-value, potentiometer

Not applicable, Product is a solid.

Soluble

Not applicable Mixture 0,011 Pa

690 - 890 g/l

Not applicable, Product is a solid.

Particle Size - D10 14,7 μm Volume based calculation method Particle Size - D50 37,7 μm Volume based calculation method Particle Size - D90 112 μm Volume based calculation method

9.2. Other information

Other information not applicable for this product

SECTION 10: Stability and reactivity

10.1. Reactivity

Reaction with strong bases

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

No decomposition if used according to specifications.

10.5. Incompatible materials

See section reactivity.

10.6. Hazardous decomposition products

None if used for intended purpose.

In case of fire toxic gases can be released.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Species	Method
CAS-No.	type			
sodium 3-	LD50	> 5.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
nitrobenzenesulphonate				
127-68-4				

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Acute	dermal	toxicity:
Acute	ucimai	toaicity.

No data available.

Acute inhalative toxicity:

No data available.

Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Result	Exposure	Species	Method
CAS-No.		time		
Fatty alcohol, C12-18,	moderately	2 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
ethoxylate	irritating			
68213-23-0				

Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Fatty alcohol, C12-18, ethoxylate 68213-23-0	irritating	24 h	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
sodium 3-	sensitising	Guinea pig maximisation	guinea pig	EU Method B.6 (Skin Sensitisation)
nitrobenzenesulphonate		test		
127-68-4				

Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances	Result	Type of study /	Metabolic	Species	Method
CAS-No.		Route of	activation /		
		administration	Exposure time		
sodium 3-	negative	in vitro mammalian	with and without		not specified
nitrobenzenesulphonate		chromosome			
127-68-4		aberration test			
sodium 3-	negative	bacterial reverse	with and without		not specified
nitrobenzenesulphonate		mutation assay (e.g			
127-68-4		Ames test)			
sodium 3-	negative	oral: unspecified		mouse	OECD Guideline 474
nitrobenzenesulphonate					(Mammalian Erythrocyte
127-68-4					Micronucleus Test)

Carcinogenicity

No data available.

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Renro	ductive	toxicity:
IZCDIO	uucuve	WAILILY.

No data available.

STOT-single exposure:

No data available.

STOT-repeated exposure:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
sodium 3- nitrobenzenesulphonate 127-68-4	LOAEL >= 1.000 mg/kg	oral: gavage	28 days daily	rat	Guidelines for 28-Day Repeat Dose Toxicity Test (Japan)

Aspiration hazard:

No data available.

11.2 Information on other hazards

not applicable

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SECTION 12: Ecological information

General ecological information:

Do not empty into drains / surface water / ground water.

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Fatty alcohol, C12-18, ethoxylate 68213-23-0	LC50	6 mg/l	48 h	Leuciscus idus	DIN 38412-15
sodium 3- nitrobenzenesulphonate 127-68-4	LC50	> 500 mg/l	96 h	Leuciscus idus	DIN 38412-15

Toxicity (aquatic invertebrates):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Fatty alcohol, C12-18,	EC50	7 mg/l	24 h	Daphnia magna	OECD Guideline 202
ethoxylate					(Daphnia sp. Acute
68213-23-0					Immobilisation Test)
sodium 3-	EC50	8.665 mg/l	48 h	Daphnia magna	OECD Guideline 202
nitrobenzenesulphonate					(Daphnia sp. Acute
127-68-4					Immobilisation Test)

Chronic toxicity	(aquatic	invertebrates)):
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No data available.

Toxicity (Algae):

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The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Fatty alcohol, C12-18, ethoxylate 68213-23-0	EC50	> 1 - 10 mg/l	72 h	not specified	OECD Guideline 201 (Alga, Growth Inhibition Test)
Fatty alcohol, C12-18, ethoxylate 68213-23-0	EC10	> 0,1 - 1 mg/l	72 h	not specified	OECD Guideline 201 (Alga, Growth Inhibition Test)
sodium 3- nitrobenzenesulphonate 127-68-4	EC50	> 500 mg/l	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09

Toxicity (microorganisms):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Fatty alcohol, C12-18,	EC0	1.000 mg/l	30 min	Pseudomonas putida	DIN 38412, part 27
ethoxylate					(Bacterial oxygen
68213-23-0					consumption test)
sodium 3-	EC10	> 10.000 mg/l	17 h		not specified
nitrobenzenesulphonate					
127-68-4					

12.2. Persistence and degradability

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Fatty alcohol, C12-18, ethoxylate 68213-23-0	readily biodegradable	aerobic	77 %	30 d	EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test)
sodium 3- nitrobenzenesulphonate 127-68-4	not readily biodegradable.	aerobic	0 %	30 d	EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test)
sodium 3- nitrobenzenesulphonate 127-68-4	not inherently biodegradable	aerobic	> 90 %		OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)

12.3. Bioaccumulative potential

No data available.

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12.4. Mobility in soil

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	LogPow	Temperature	Method
sodium 3-	-2,61	25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake
nitrobenzenesulphonate			Flask Method)
127-68-4			

12.5. Results of PBT and vPvB assessment

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	PBT / vPvB		
CAS-No.			
Fatty alcohol, C12-18, ethoxylate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very		
68213-23-0	Bioaccumulative (vPvB) criteria.		
sodium 3-nitrobenzenesulphonate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very		
127-68-4	Bioaccumulative (vPvB) criteria.		

12.6. Endocrine disrupting properties

not applicable

12.7. Other adverse effects

If acidic or alkaline products are discharged into wastewater installations care must be taken that the discharged wastewater has a pH in the range pH 6 - 10, as pH variations could cause disorders in wastewater channels and biological sewage treatment plants. The local discharge regulations take precedence.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

In consultation with the responsible local authority, must be subjected to special treatment.

Waste code

060399

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

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SECTION 14: Transport information

14.1. UN number or ID number

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.2. UN proper shipping name

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.3. Transport hazard class(es)

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.4. Packing group

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.5. Environmental hazards

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.6. Special precautions for user

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009):
Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):
Persistent organic pollutants (Regulation (EU) 2019/1021):
VOC content 0 %

(2010/75/EU)

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

National regulations/information (Germany):

WGK: WGK 2: significantly water endangering (Ordinance on facilities for handling

substances that are hazardous to water (AwSV)) Classification according to AwSV, Annex 1 (5.2)

Not applicable

Not applicable

Not applicable

Storage class according to TRGS 510: 11

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SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

ED: Substance identified as having endocrine disrupting properties

EU OEL:

Substance with a Union workplace exposure limit

EU EXPLD 1:

Substance listed in Annex I, Reg (EC) No. 2019/1148

EU EXPLD 2

Substance listed in Annex II, Reg (EC) No. 2019/1148

SVHC:

Substance of very high concern (REACH Candidate List)

PBT:

Substance fulfilling persistent, bioaccumulative and toxic criteria

PBT/vPvB: Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very

bioaccumulative criteria

vPvB: Substance fulfilling very persistent and very bioaccumulative criteria

Further information:

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