

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

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# BONDERITE S-FN 6748 CORROSION PROTECTIVE COATING

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

### 1.1. Product identifier

BONDERITE S-FN 6748 CORROSION PROTECTIVE COATING

**1.2. Relevant identified uses of the substance or mixture and uses advised against** Intended use: Corrosion Protection Agents for Metals

### **1.3. Details of the supplier of the safety data sheet** Henkel AG & Co. KGaA Henkelstr. 67

40589 Düsseldorf

Germany

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

# **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):

16	issincation (CLI).	
	Acute toxicity	Category 4
	H332 Harmful if inhaled.	
	Route of Exposure: Inhalation	
	Skin corrosion	Category 1B
	H314 Causes severe skin burns and eye damage.	
	Serious eye damage	Category 1
	H318 Causes serious eye damage.	
	Specific target organ toxicity - single exposure	Category 3
	H335 May cause respiratory irritation.	
	Target organ: respiratory tract irritation	
	Chronic hazards to the aquatic environment	Category 3
	H412 Harmful to aquatic life with long lasting effects.	

#### 2.2. Label elements

Label elements (CLP):

Hazard pictogram:	
Contains	2-aminoethanol
Signal word:	Danger
Hazard statement:	<ul><li>H314 Causes severe skin burns and eye damage.</li><li>H332 Harmful if inhaled.</li><li>H335 May cause respiratory irritation.</li><li>H412 Harmful to aquatic life with long lasting effects.</li></ul>
Precautionary statement: Prevention	P260 Do not breathe mist/vapours. P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statement: Response	<ul> <li>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.</li> <li>Rinse skin with water [or shower].</li> <li>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P310 Immediately call a POISON CENTER or doctor.</li> </ul>

#### 2.3. Other hazards

None if used properly.

The classification as corrosive H314 category 1 is due to the extreme pH. Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

# Following substances are present in a concentration >= 0,1% and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in concentration  $\geq$  the concentration limit 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
2-aminoethanol 141-43-5 205-483-3 01-2119486455-28	20- 40 %	Acute Tox. 4, Oral, H302 Acute Tox. 4, Dermal, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Acute Tox. 4, Inhalation, H332 STOT SE 3, H335 Aquatic Chronic 3, H412	STOT SE 3; H335; C >= 5 % ===== inhalation:ATE = 1,5 mg/l;dust/mist	EU OEL

For full text of the H - statements and other abbreviations see section 16 "Other information". Substances without classification may have community workplace exposure limits available.

# **SECTION 4: First aid measures**

4.1. Description of first aid measures

#### Inhalation:

Fresh air, oxygen supply, warmth; seek specialist medical attention.

#### Skin contact:

Immediately rinse with copious amounts of running water (for 10 minutes). Remove contaminated clothes. Put on a bandage with sterile gauze, seek medical attention in hospital.

#### Eye contact:

Immediately flush eyes with soft jet of water or eye rinse solution for at least 15 minutes. Hold eyelid wide-open. Seek a doctor/hospital, eye flushing should continue during transportation to a doctor.

#### Ingestion:

Rinse out mouth, drink 1-2 glasses of water, do not induce vomiting. Immediate medical treatment necessary.

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

Causes burns.

RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

#### 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: All common extinguishing agents are suitable.

#### **Extinguishing media which must not be used for safety reasons:** None known

#### 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 self-contained breathing apparatus. Wear protective equipment.

#### Additional information:

Cool endangered containers with water spray jet.

# **SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures** Avoid contact with skin and eyes.

#### **6.2. Environmental precautions**

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

### 6.3. Methods and material for containment and cleaning up

Remove with liquid-absorbing material (sand, peat, sawdust). 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. When diluting/dissolving always slowly stir the product into water. Do not add product to hot water or hot solutions. Heating with vigorous, sudden delayed boiling is possible! Scalding hazard! See advice in section 8

Hygiene measures:

Wash hands before work breaks and after finishing work. Do not eat, drink or smoke while working. Wash contaminated clothing before reuse. The workplace should be equipped with an emergency shower and eye-rinsing facility.

# 7.2. Conditions for safe storage, including any incompatibilities

Store in sealed original container. Store at room temperature.

# 7.3. Specific end use(s)

Corrosion Protection Agents for Metals

**SECTION 8: Exposure controls/personal protection** 

#### 8.1. Control parameters

#### **Occupational Exposure Limits**

Valid for

Germany

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
2-Aminoethanol 141-43-5 [2-AMINOETHANOL]	3	7,6	Short Term Exposure Limit (STEL):	Indicative	ECTLV
2-Aminoethanol 141-43-5 [2-AMINOETHANOL]	1	2,5	Time Weighted Average (TWA):	Indicative	ECTLV
2-Aminoethanol 141-43-5			Short Term Exposure Classification:	Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages.	TRGS 900
2-Aminoethanol 141-43-5	0,2	0,5	Exposure limit(s):	1 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
2-Aminoethanol 141-43-5			Skin designation:	Can be absorbed through the skin.	TRGS 900

# Predicted No-Effect Concentration (PNEC):

Name on list	Environmental	Exposure	Value				Remarks
	Compartment	period					
			mg/l	ppm	mg/kg	others	
2-Aminoethanol	aqua		0,07 mg/l				
141-43-5	(freshwater)						
2-Aminoethanol	aqua (marine		0,007 mg/l				
141-43-5	water)						
2-Aminoethanol	aqua		0,028 mg/l				
141-43-5	(intermittent						
	releases)						
2-Aminoethanol	sediment				0,357		
141-43-5	(freshwater)				mg/kg		
2-Aminoethanol	sediment				0,036		
141-43-5	(marine water)				mg/kg		
2-Aminoethanol	Soil				1,29 mg/kg		
141-43-5							
2-Aminoethanol	sewage		100 mg/l				
141-43-5	treatment plant						
	(STP)						

# Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
2-Aminoethanol 141-43-5	Workers	inhalation	Long term exposure - systemic effects		1 mg/m3	
2-Aminoethanol 141-43-5	Workers	inhalation	Long term exposure - local effects		0,51 mg/m3	
2-Aminoethanol 141-43-5	Workers	dermal	Long term exposure - systemic effects		3 mg/kg	
2-Aminoethanol 141-43-5	General population	dermal	Long term exposure - systemic effects		1,5 mg/kg	
2-Aminoethanol 141-43-5	General population	oral	Long term exposure - systemic effects		1,5 mg/kg	
2-Aminoethanol 141-43-5	General population	inhalation	Long term exposure - systemic effects		0,18 mg/m3	
2-Aminoethanol 141-43-5	General population	inhalation	Long term exposure - local effects		0,28 mg/m3	

# **Biological Exposure Indices:**

None

# 8.2. Exposure controls:

Engineering controls: Ensure good ventilation/suction at the workplace.

Respiratory protection:

In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter (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;  $\geq 1$  mm thickness) or natural rubber (NR;  $\geq 1$  mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Polychloroprene (CR;  $\geq 1$  mm thickness) or natural rubber (NR;  $\geq 1$  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: Protective clothing that covers arms and legs. 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

Physical state	liquid
Delivery form	liquid
Colour	light yellow
Odor	amine-like
Melting point	Not applicable, Product is a liquid
Solidification temperature	<= 0 °C (<= 32 °F)
Initial boiling point	$> 100 \ ^{\circ}\text{C} (> 212 \ ^{\circ}\text{F})$ no method
Flammability	Non flammable product (flash point is greater than 93°C)
Explosive limits	Not applicable, Aqueous solution
Flash point	> 100 °C (> 212 °F)
Auto-ignition temperature	Not applicable, Aqueous solution
Decomposition temperature	Not applicable, Substance/mixture is not self-reactive, no
	organic peroxide and does not decompose under foreseen
	conditions of use
pH	10,70 - 11,30 PH-value, potentiometer
(20 °C (68 °F); Conc.: 1,0 % product;	
Solvent: Demineralised water)	
pH	12,45 PH-value, potentiometer
(20 °C (68 °F); Conc.: 100 % product;	
Solvent: Demineralised water)	
Viscosity (kinematic)	> 20,5 mm2/s
(40 °C (104 °F); )	
Viscosity, dynamic	Not applicable
0	
Solubility (qualitative)	fully soluble
(20 °C (68 °F); Solvent: Water)	
Partition coefficient: n-octanol/water	Not applicable
	Mixture
Vapour pressure	123 mbar;None
(20 °C (68 °F))	
Vapour pressure	161 mbar;None
(55 °C (131 °F))	
Density	1,00 - 1,05 g/cm3
(20 °C (68 °F))	. 1
Relative vapour density:	< 1

# (20 °C) Particle characteristics

Not applicable Product is a liquid

# 9.2. Other information

Other information not applicable for this product

# **SECTION 10: Stability and reactivity**

**10.1. Reactivity** Reaction with strong acids.

**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** 

#### 1.1 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 CAS-No.	Value type	Value	Species	Method
2-aminoethanol	LD50	1.515 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral
141-43-5				Toxicity)

#### Acute dermal toxicity:

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

Hazardous substances CAS-No.	Value type	Value	Species	Method
2-aminoethanol 141-43-5	LD50	1.025 mg/kg	rabbit	not specified

# Acute inhalative toxicity:

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

Hazardous substances	Value	Value	Test atmosphere	Exposure	Species	Method
CAS-No.	type			time		
2-aminoethanol 141-43-5	Acute toxicity estimate (ATE)	1,5 mg/l	dust/mist			Expert judgement
2-aminoethanol 141-43-5	LC50	1 - 5 mg/l		4 h	rat	not specified

#### Skin corrosion/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
2-aminoethanol 141-43-5	corrosive	4 h		equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

#### 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
2-aminoethanol 141-43-5	corrosive		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
2-aminoethanol 141-43-5	not sensitising	Guinea pig maximisation test	guinea pig	not specified

#### Germ cell mutagenicity:

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

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
2-aminoethanol 141-43-5	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
2-aminoethanol 141-43-5	negative	in vitro mammalian chromosome aberration test	without		equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
2-aminoethanol 141-43-5	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
2-aminoethanol 141-43-5	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

# Carcinogenicity

No data available.

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

Hazardous substances CAS-No.	<b>Result</b> / Value	Test type	Route of application	Species	Method
2-aminoethanol 141-43-5	NOAEL P 300 mg/kg NOAEL F1 1.000 mg/kg NOAEL F2 1.000 mg/kg	Two generation study	oral: feed	rat	OECD Guideline 416 (Two- Generation Reproduction Toxicity Study)

# 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
2-aminoethanol 141-43-5	NOAEL 300 mg/kg	oral: feed	> 75 d daily	rat	other guideline:

# Aspiration hazard:

No data available.

# 11.2 Information on other hazards

not applicable

# **SECTION 12: Ecological information**

## General ecological information:

Do not empty into drains / surface water / ground water. Locally harmful for aquatic and landliving organisms because of high pH and corrosive properties.

#### 12.1. Toxicity

#### Toxicity (Fish):

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

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
2-aminoethanol 141-43-5	LC50	349 mg/l	96 h	Cyprinus carpio	EU Method C.1 (Acute Toxicity for Fish)
2-aminoethanol	NOEC	1,24 mg/l	41 d	Oryzias latipes	OECD Guideline 210 (fish
141-43-5					early lite stage toxicity test)

#### Toxicity (Daphnia):

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

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
2-aminoethanol	EC50	27,04 mg/l	48 h	Daphnia magna	OECD Guideline 202
141-43-5					(Daphnia sp. Acute
					Immobilisation Test)

# Chronic toxicity to aquatic invertebrates

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

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
2-aminoethanol 141-43-5	NOEC	0,85 mg/l	21 d	1	OECD 211 (Daphnia magna, Reproduction Test)

#### Toxicity (Algae):

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

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
2-aminoethanol	EC50	2,8 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga,
141-43-5				(reported as Raphidocelis	Growth Inhibition Test)
				subcapitata)	
2-aminoethanol	EC10	0,7 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga,
141-43-5		-		(reported as Raphidocelis	Growth Inhibition Test)
				subcapitata)	

#### Toxicity to microorganisms

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

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
2-aminoethanol	EC 50	> 1.000 mg/l	3 h		OECD Guideline 209
141-43-5					(Activated Sludge,
					Respiration Inhibition Test)

### 12.2. Persistence and degradability

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
2-aminoethanol 141-43-5	readily biodegradable	aerobic	> 80 %		OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

#### **12.3.** Bioaccumulative potential

No data available.

#### 12.4. Mobility in soil

Hazardous substances	LogPow	Temperature	Method
CAS-No.			
2-aminoethanol	-1,91	25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake
141-43-5			Flask Method)

# 12.5. Results of PBT and vPvB assessment

Hazardous substances CAS-No.	PBT / vPvB
2-aminoethanol	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
141-43-5	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

EWC/EAK 070608

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.

# **SECTION 14: Transport information**

#### 14.1. UN number or ID number

ADR RID ADN	2491 2491 2491
IMDG	2491
IATA	2491

# 14.2. UN proper shipping name

ADR	ETHANOLAMINE, SOLUTION
RID	ETHANOLAMINE, SOLUTION
ADN	ETHANOLAMINE, SOLUTION
IMDG	ETHANOLAMINE SOLUTION
IATA	Ethanolamine solution

# 14.3. Transport hazard class(es)

ADR	8
RID	8
ADN	8
IMDG	8
IATA	8

# 14.4. Packing group

ADR	III
RID	III
ADN	III
IMDG	III
IATA	III

# 14.5. Environmental hazards

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

#### 14.6. Special precautions for user

ADR	not applicable
	Tunnelcode: (E)
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

# 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):
 Not applicable

 Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):
 Not applicable

 Persistent organic pollutants (Regulation (EU) 2019/1021):
 Not applicable

 VOC content
 36,7 %

 (2010/75/EU)
 (2010/75/EU)

8A

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

#### National regulations/information (Germany):

WGK:

WGK 1: slightly hazardous to water (Ordinance on facilities for handling substances that are hazardous to water (AwSV) ) Classification according to AwSV, Annex 1 (5.2)

Storage class according to TRGS 510:

# **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. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.

H332 Harmful if inhaled.

H335 May cause respiratory 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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