Safety Data Sheet

BONDERITE M-PT 30 HO20KGEN/CH

SDS No. : 333718
V001.6
Revision: 06.09.2021
printing date: 28.02.2025

Section 1. Identification of the substance/preparation and of the company/undertaking

Product name:
BONDERITE M-PT 30 HO20KGEN/CH

Other means of identification:
BONDERITE M-PT 30 HO20KGEN/CHBONDERITE M-PT 30 HO20KGEN/CH
Product code:
IDH1229131
Recommended use of the chemical and restrictions on use

Intended use:
Cleaner

Identification of manufacturer, importer or distributor
Manufacturer: Henkel Thailand Ltd Amata Nakorn Industrial Estate, 700/349 Mu 6, Tambol Nong Mai Daeng, Amphur Muang, Chonburi 20000, Thailand. Phone : +6638456300 Fax : +6638456393

E-mail address of person responsible for Safety Data Sheet:
ap-ua-psra.sea@henkel.com

Emergency information:
FOR EMERGENCIES ONLY (Spill, major leak, Fire, Exposure, or Accident). Call CHEMTREC: +1 703-741-5970

Section 2. Hazards identification

GHS Classification:

Hazard Class	Hazard Category	Target organ
Skin corrosion/irritation	Category 1B	
Serious eye damage/eye irritation	Category 1	
Specific target organ toxicity - single exposure	Category 3	respiratory tract irritation

GHS label elements:

Hazard pictogram:

Signal word:
Danger

Hazard statement:
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.

Precaution:

Prevention:
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
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 [or shower].
P304+P340+P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P363 Wash contaminated clothing before reuse.
Storage:
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
Disposal:
P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Section 3. Composition / information on ingredients

Substance or Mixture:
Mixture

Declaration of hazardous chemical:

Hazard component CAS-No.	Content	GHS Classification
2-Aminoethanol 141-43-5	10- 30 %	Flammable liquids 4 H227 Acute toxicity 4; Oral H302 Acute toxicity 4; Inhalation H332 Acute toxicity 4; Dermal H312 Skin corrosion/irritation 1 H314 Serious eye damage/eye irritation 1 H318 Specific target organ toxicity - single exposure 3 H335 Acute hazards to the aquatic environment 2 H401 Chronic hazards to the aquatic environment 3 H412
2,2',2"-Nitrilotriethanol 102-71-6	10- 30 %	
Nitric acid, reaction products with cyclododecanol and cyclododecanone, by-products from, high-boiling fraction 72162-23-3	10- 30 %	Serious eye damage/eye irritation 2A H319

Section 4. First aid measures

Inhalation:
If mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms develop or persist.

Skin contact:
Immediately remove soiled or soaked clothing.
For skin contact flush with large amounts of water.
Seek medical advice.

Eye contact:
In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.

Ingestion:
Do not induce vomiting.
Give one to two glasses of water or milk.
Never give anything by mouth to a victim who is unconscious or is having convulsions.
If adverse health effects develop seek medical attention.

Symptoms/effects, acute and delayed:
Pre-existing skin, eye and respiratory allergies.

Section 5. Fire fighting measures

Suitable extinguishing media:
Use media appropriate for surrounding material.

Specific hazards arising from the chemical:
This product is an aqueous mixture which will not burn. If evaporated to dryness, the solid residue may pose a moderate fire hazard.

Special protection equipment and precautions for firefighters:
Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Section 6. Accidental release measures

Environmental precautions:
Do not empty into drains / surface water / ground water.
Dike the spilled material, where this is possible.
Ventilated area.

Clean-up methods:
Collect spilled material with an inert absorbent such as sand or vermiculite. Place in properly labeled closed container.
Dispose of contaminated material as waste according to Section 13.

Section 7. Handling and storage

Handling:
Do not get in eyes.
Do not get on skin or clothing.
Wash thoroughly after handling.

Storage:
Store in tightly closed containers. In a cool/well-ventilated area.

Section 8. Exposure controls / personal protection

Components with specific control parameters for workplace:

ETHANOLAMINE 141-43-5	**Value type**	Short Term Exposure Limit (STEL):
	ppm	6
	Remarks	ACGIH
ETHANOLAMINE 141-43-5	**Value type**	Time Weighted Average (TWA):
	ppm	3
	Remarks	TH OEL
ETHANOLAMINE 141-43-5	**Value type**	Time Weighted Average (TWA):
	ppm	3
	Remarks	ACGIH
TRIETHANOLAMINE 102-71-6	**Value type**	Time Weighted Average (TWA):
	mg/m³	5
	Remarks	ACGIH

Respiratory protection:
If ventilation is not sufficient to effectively prevent buildup of vapor/mist/fume/dust, appropriate NIOSH/MSHA respiratory protection must be provided.

Hand protection:
Use impervious gloves.
Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:
Wear chemical goggles; face shield (if splashing is possible).

Body protection:
Use of impervious apron and boots are recommended.

Engineering controls:
Ventilation should effectively remove and prevent buildup of any vapor/mist/fume/dust generated from the handling of this product.

General protection and hygiene measures:
Eyewash fountains and emergency showers are required.

Section 9. Physical and chemical properties

Appearance:	yellow, to, brown liquid
Odor:	Amine
Odor threshold (CA):	No data available.
pH:(Concentration: 1 %)	9.0 - 10.0
Melting point / freezing point:	Not applicable
Specific gravity:	1.1000
Boiling point:	> 200.0 °F (> 93.3 °C)
Flash point:	No data available.
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Lower explosive limit:	No data available.
Upper explosive limit:	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Density:	No data available.
Solubility:	No data available.

Partition coefficient: n-octanol/water:	No data available.
Auto ignition:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
VOC content:	No data available.

Section 10. Stability and reactivity

Reactivity/Incompatible materials:
This product reacts with acids.
Possibility of hazardous reactions:
Will not occur
Conditions to avoid:
Stable under normal conditions of storage and use.
Hazardous decomposition products:
Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Section 11. Toxicological information

Oral toxicity: Acute toxicity estimate (ATE) : > 2,000 mg/kg
Method: Calculation method

Inhalative toxicity: Acute toxicity estimate (ATE) : > 20 mg/l
Exposure time: 4 h
Test atmosphere: Vapor.
Method: Calculation method

Dermal toxicity: Acute toxicity estimate (ATE) : > 2,000 mg/kg
Method: Calculation method

Health Effects:

Ingestion:	Harmful if swallowed. This product may produce corrosive damage to the gastrointestinal tract if it is swallowed.
Skin:	Contact with the skin or mucous membranes will cause severe burns and possible ulceration.
Eyes:	This product is severely irritating to the eyes and may cause irreversible damage including burns and blindness.
Inhalation:	Harmful by inhalation. Inhalation of vapors or mists of the product may be irritating to the respiratory system.
Symptoms of Overexposure**:**	None known.

Acute oral toxicity:

2-Aminoethanol 141-43-5	Value type	LD50
	Value	1,515 mg/kg
	Species	rat
	Method	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
2,2',2"-Nitrilotriethanol 102-71-6	Value type	LD50
	Value	6,400 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
Nitric acid, reaction products with cyclododecanol and cyclododecanone, by-products from, high-boiling fraction 72162-23-3	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rat
	Method	not specified

Acute inhalative toxicity:

2-Aminoethanol 141-43-5	Value type	Acute toxicity estimate (ATE)
	Value	1.5 mg/l
	Exposure time	
	Species	
	Method	Expert judgement
2-Aminoethanol 141-43-5	Value type	LC50
	Value	1 - 5 mg/l
	Exposure time	4 h
	Species	rat
	Method	not specified

Acute dermal toxicity:

2-Aminoethanol 141-43-5	Value type	LD50
	Value	1,025 mg/kg
	Species	rabbit
	Method	not specified
2,2',2"-Nitrilotriethanol 102-71-6	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rabbit
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
Nitric acid, reaction products with cyclododecanol and cyclododecanone, by-products from, high-boiling fraction 72162-23-3	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rabbit
	Method	not specified

Skin corrosion/irritation:

2-Aminoethanol 141-43-5	Result	corrosive
	Exposure time	4 h
	Species	rabbit
	Method	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
2,2',2"-Nitrilotriethanol 102-71-6	Result	not irritating
	Exposure time	4 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

2-Aminoethanol 141-43-5	Result	corrosive
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
2,2',2"-Nitrilotriethanol 102-71-6	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	Draize Test

Respiratory or skin sensitization:

2-Aminoethanol 141-43-5	Result	not sensitising
	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	not specified
2,2',2"-Nitrilotriethanol 102-71-6	Result	not sensitising
	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

2-Aminoethanol 141-43-5	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
2-Aminoethanol 141-43-5	Result	negative
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	without
	Method	equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
2-Aminoethanol 141-43-5	Result	negative
	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
2-Aminoethanol 141-43-5	Result	negative
	Type of study / Route of administration	oral: gavage
	Metabolic activation / Exposure time	
	Species	mouse
	Method	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
2,2',2"-Nitrilotriethanol 102-71-6	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
2,2',2"-Nitrilotriethanol 102-71-6	Result	negative
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
2,2',2"-Nitrilotriethanol 102-71-6	Result	negative
	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
2,2',2"-Nitrilotriethanol 102-71-6	Result	negative
	Type of study / Route of administration	sister chromatid exchange assay in mammalian cells
	Metabolic activation / Exposure time	with and without
	Method	not specified
2,2',2"-Nitrilotriethanol 102-71-6	Result	negative
	Type of study / Route of administration	dermal
	Metabolic activation / Exposure time	
	Species	mouse
	Method	Micronucleus assay

Repeated dose toxicity:

2-Aminoethanol 141-43-5	Result	NOAEL=300 mg/kg
	Route of application	oral: feed
	Exposure time / Frequency of treatment	> 75 ddaily
	Species	rat
	Method	other guideline:
2,2',2"-Nitrilotriethanol 102-71-6	Result	NOAEL=1,000 mg/kg
	Route of application	oral: feed
	Exposure time / Frequency of treatment	91 ddaily
	Species	rat
	Method	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
2,2',2"-Nitrilotriethanol 102-71-6	Result	NOAEL=125 mg/kg
	Route of application	dermal
	Exposure time / Frequency of treatment	90 d5 d/w
	Species	rat
	Method	OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
2,2',2"-Nitrilotriethanol 102-71-6	Result	
	Route of application	inhalation
	Exposure time / Frequency of treatment	28 d6 h/d, 5 d/w
	Species	rat
	Method	OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day)

Section 12. Ecological information

General ecological information: Because of the high pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

Toxicity:

2-Aminoethanol 141-43-5	Value type	LC50
	Value	> 250 mg/l
	Acute Toxicity Study	Fish
	Exposure time	48 h
	Species	Leuciscus idus
	Method	DIN 38412-15
	Value type	NOEC
	Value	1.24 mg/l
	Acute Toxicity Study	Fish
	Exposure time	41 d
	Species	Oryzias latipes
	Method	OECD Guideline 210 (fish early lite stage toxicity test)
2-Aminoethanol 141-43-5	Value type	EC50
	Value	85 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	24 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-Aminoethanol 141-43-5	Value type	EC50
	Value	2.5 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	1 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-Aminoethanol 141-43-5	Value type	EC 50
	Value	> 1,000 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	

	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
2,2',2"-Nitrilotriethanol 102-71-6	Value type	LC50
	Value	11,800 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Pimephales promelas
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
2,2',2"-Nitrilotriethanol 102-71-6	Value type	EC50
	Value	609.88 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Ceriodaphnia dubia
	Method	other guideline:
2,2',2"-Nitrilotriethanol 102-71-6	Value type	EC50
	Value	512 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)
	Method	DIN 38412-09
	Value type	EC10
	Value	26 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)
	Method	DIN 38412-09
2,2',2"-Nitrilotriethanol 102-71-6	Value type	EC0
	Value	1,000 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	30 min
	Species	
	Method	not specified
Nitric acid, reaction products with cyclododecanol and cyclododecanone, by-products from, high-boiling fraction 72162-23-3	Value type	EC50
	Value	> 120 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Persistence and degradability:

2-Aminoethanol 141-43-5	Result	readily biodegradable
	Route of application	aerobic
	Degradability	> 80 %
	Method	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
2,2',2"-Nitrilotriethanol 102-71-6	Result	readily biodegradable
	Route of application	aerobic
	Degradability	97 - 100 %
	Method	EU Method C.4-B (Determination of the "Ready" BiodegradabilityModified OECD Screening Test)
	Result	inherently biodegradable
	Route of application	aerobic
	Degradability	99 %
	Method	EU Method C.9 (Biodegradation: Zahn-Wellens Test)
Nitric acid, reaction products with cyclododecanol and cyclododecanone, by-products from, high-boiling fraction 72162-23-3	Result	readily biodegradable, but failing 10-day window
	Route of application	
	Degradability	63 %
	Method	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

Bioaccumulative potential / Mobility in soil:

2-Aminoethanol 141-43-5	LogPow	-1.91
	Temperature	25 °C
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
2,2',2"-Nitrilotriethanol 102-71-6	LogPow	-1.9
	Temperature	25 °C
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

Section 13. Disposal considerations

Product

Method of disposal:
Dispose of in accordance with local and national regulations.

Packaging

Disposal of uncleaned packages:
Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

Section 14. Transport information

Road transport ADR:

Class:	8
Packing group:	III
Classification code:	C7
Hazard ident. number:	80
UN no.:	2491
Label:	8
Technical name:	ETHANOLAMINE, SOLUTION

Railroad transport RID:

Class:	8
Packing group:	III
Classification code:	C7
Hazard ident. number:	80
UN no.:	2491
Label:	8
Technical name:	ETHANOLAMINE, SOLUTION

Inland water transport ADN:

Class:	8
Packing group:	III
Classification code:	C7
Hazard ident. number:	
UN no.:	2491
Label:	8
Technical name:	ETHANOLAMINE, SOLUTION

Marine transport IMDG:

Class:	8
Packing group:	III
UN no.:	2491
Label:	8
EmS:	F-A ,S-B
Seawater pollutant:	-
Proper shipping name:	ETHANOLAMINE SOLUTION

Air transport IATA:

Class:	8
Packing group:	III
Packaging instructions (passenger):	852
Packaging instructions (cargo):	856
UN no.:	2491
Label:	8
Proper shipping name:	Ethanolamine solution

`Section 15. Regulatory information

Regulatory Information:
Ministry of Industry Notice. The system to classify and communicate the hazard of hazardous material, BE. 2555

Global inventory status:

Regulatory list	Notification
TSCA	yes
DSL	yes
KECI (KR)	yes
ENCS (JP)	yes
ISHL (JP)	yes
IECSC	yes
AICS	yes
TCSI	yes
CH INV	yes
EINECS	yes

Section 16. Other information

Disclaimer:
This Safety Data Sheet has been generated based on Ministry of Industry Notice. The system to classify and communicate the hazard of hazardous material, BE. 2555 only. No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. Please contact Henkel Product Safety and Regulatory Affairs for additional assistance.This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.
Dear Customer,
Henkel is committed to creating a sustainable future by promoting opportunities along the entire value chain. If you would like to contribute by switching from a paper to the electronic version of SDS, please contact the local Customer Service representative. We recommend to use a non-personal email address (e.g. SDS@your_company.com).