Safety Data Sheet according to Singapore Standard SS 586.

BONDERITE C-NE 20 JC23KG WENS+

SDS No. : 499068
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Section 1. Identification of the substance/preparation and of the company/undertaking

Product name: BONDERITE C-NE 20 JC23KG WENS+

Other means of identification: BONDERITE C-NE 20 JC23KG WENS+
Product code: IDH2587284
Recommended use of the chemical and restrictions on use

Intended use: Cleaners for Industrial Application
Manufacturer/Importer/Distributor Representative Company

Henkel Singapore Pte Ltd
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Singapore

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Emergency Telephone for Chemical Accidents: FOR EMERGENCIES ONLY (Spill, major leak, Fire, Exposure, or Accident). Call: +65 6424 7016

Section 2. Hazards identification

GHS Classification:

Hazard Class	Hazard Category	Route of Exposure
Acute toxicity	Category 4	Oral
Serious eye damage/eye irritation	Category 1	

GHS label elements:

Hazard pictogram:



Signal word: Danger

Hazard statement: H302 Harmful if swallowed.
H318 Causes serious eye damage.

Precaution:

Prevention: P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear eye protection/face protection.

Response: P301+P310+P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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
Alcohols, C9-11-iso-, C10-rich, 7EO 78330-20-8	10- 30 %	Acute toxicity 4; Oral H302 Serious eye damage/eye irritation 1 H318
2,2',2"-Nitrilotriethanol 102-71-6	10- 30 %	
Alcohols C13, branched C13 5EO 69011-36-5	1- 10 %	Serious eye damage/eye irritation 1 H318

Section 4. First aid measures

Inhalation: Move to fresh air, consult doctor if complaint persists.

Skin contact: Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing.
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: Rinse out mouth, drink 1-2 glasses of water, do not induce vomiting.
Immediate medical treatment necessary.

Indication of immediate medical attention and special treatment needed: See section: Description of first aid measures

Section 5. Fire fighting measures

Suitable extinguishing media: Carbon dioxide, foam, powder
Water spray jet

Improper extinguishing media:	High pressure waterjet
Specific hazards arising from the chemical:	Formation of toxic gases is possible during heating or in fires.
Special protection equipment and precautions for firefighters:	Wear self-contained breathing apparatus.
Additional fire fighting advice:	Cool endangered containers with water spray jet.

Section 6. Accidental release measures

Personal precautions:	Avoid contact with skin and eyes. Danger of slipping on spilled product.
Environmental precautions:	Do not empty into drains / surface water / ground water.
Clean-up methods:	Remove with liquid-absorbing material (sand, peat, sawdust). Dispose of contaminated material as waste according to Section 13.

Section 7. Handling and storage

Handling:	Avoid skin and eye contact. Ensure that workrooms are adequately ventilated. See advice in section 8
Storage:	Store in sealed original container.Store in tightly closed containers. In a cool/well-ventilated area. Keep away from sources of ignition.

Section 8. Exposure controls / personal protection

Components with specific control parameters for workplace:

TRIETHANOLAMINE 102-71-6	**Value type**	Time Weighted Average (TWA):
	mg/m³	5
	Remarks	ACGIH
TRIETHANOLAMINE 102-71-6	**Value type**	Time Weighted Average (TWA):
	mg/m³	5
	Remarks	SG OEL

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; >= 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.

Body protection: Protective clothing that covers arms and legs.
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Engineering controls: Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

General protection and hygiene measures: The workplace should be equipped with an emergency shower and eye-rinsing facility.

Hygienic measures: Wash hands before work breaks and after finishing work.
Do not eat, drink or smoke while working.
Take off contaminated clothing and wash before reuse.

Section 9. Physical and chemical properties

Appearance: yellow
liquid
Odor: no valuation
Odor threshold (CA): No data available.
pH:(Concentration: 100 % product) 8.55 - 8.85
Melting point / freezing point: Not applicable, Product is a liquid
Specific gravity: No data available.
Boiling point: 100 °C (212 °F)
Aqueous solution
Flash point: Not applicable
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:	102 mbar
(; 50 °C (122 °F); 55 °C (131 °F);	132 mbar
20 °C (68 °F))	23.4 hPa
	Values referring to water
Vapor density:	< 1
Density:	1.02 - 1.06 g/cm3
Solubility:	No data available.
Partition coefficient: n-octanol/water:	No data available.
Auto ignition:	Not available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
VOC content:	No data available.

Section 10. Stability and reactivity

Reactivity/Incompatible materials:	Reaction with strong oxidants.
Chemical stability:	Stable under recommended storage conditions.
Conditions to avoid:	No decomposition if used according to specifications.
Hazardous decomposition products:	None if used for intended purpose. In case of fire toxic gases can be released.

Section 11. Toxicological information

Oral toxicity: Acute toxicity estimate (ATE) : 1,358 mg/kg
Method: Calculation method

Health Effects:
Ingestion: Harmful if swallowed.
Eyes: Causes serious eye damage.
Symptoms of Overexposure**:** After eye contact: Corrosive, may cause permanent damage to eyes (impairment of vision).

Acute oral toxicity:

Alcohols, C9-11-iso-, C10-rich, 7EO 78330-20-8	Value type	LD50
	Value	> 300 - 2,000 mg/kg
	Species	rat
	Method	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)
Alcohols C13, branched C13 5EO 69011-36-5	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)

Acute dermal toxicity:

Alcohols, C9-11-iso-, C10-rich, 7EO 78330-20-8	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
2,2',2"-Nitrilotriethanol 102-71-6	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rabbit
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
Alcohols C13, branched C13 5EO 69011-36-5	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

Alcohols, C9-11-iso-, C10-rich, 7EO 78330-20-8	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	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:

Alcohols, C9-11-iso-, C10-rich, 7EO 78330-20-8	Result	Category 1 (irreversible effects on the eye)
	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:

2,2',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:

2,2',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:

2,2',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: Do not empty into drains / surface water / ground water.

Ecotoxicity:

Toxicity:

Alcohols, C9-11-iso-, C10-rich, 7EO 78330-20-8	Value type	LC50
	Value	> 10 - 100 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Leuciscus idus

	Method	DIN 38412-15
Alcohols, C9-11-iso-, C10-rich, 7EO 78330-20-8	Value type	EC50
	Value	> 10 - 100 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	DIN 38412, part 11
Alcohols, C9-11-iso-, C10-rich, 7EO 78330-20-8	Value type	EC50
	Value	> 10 - 100 mg/l
	Acute Toxicity Study	Algae
	Exposure time	96 h
	Species	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)
	Method	DIN 38412-09
	Value type	EC10
	Value	> 1 mg/l
	Acute Toxicity Study	Algae
	Exposure time	96 h
	Species	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)
	Method	DIN 38412-09
Alcohols, C9-11-iso-, C10-rich, 7EO 78330-20-8	Value type	EC10
	Value	48 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	17 h
	Species	activated sludge
	Method	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-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
Alcohols C13, branched C13 5EO 69011-36-5	Value type	LC50
	Value	4.6 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Leuciscus idus
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Alcohols C13, branched C13 5EO 69011-36-5	Value type	EC50
	Value	2.4 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Alcohols C13, branched C13 5EO 69011-36-5	Value type	EC50
	Value	2.9 mg/l
	Acute Toxicity Study	Algae

	Exposure time	48 h
	Species	not specified
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	EC10
	Value	> 0.1 - 1 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Skeletonema costatum
	Method	ISO 10253 (Water quality)

Persistence and degradability:

Alcohols, C9-11-iso-, C10-rich, 7EO 78330-20-8	Result	readily biodegradable
	Route of application	not specified
	Degradability	> 60 %
	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)
Alcohols C13, branched C13 5EO 69011-36-5	Result	readily biodegradable
	Route of application	aerobic
	Degradability	> 60 %
	Method	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

Bioaccumulative potential / Mobility in soil:

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:
Not dangerous goods

Railroad transport RID:
Not dangerous goods

Inland water transport ADN:
Not dangerous goods

Marine transport IMDG:
Not dangerous goods

Air transport IATA:
Not dangerous goods

Section 15. Regulatory information

Regulatory Information: Workplace Safety And Health Act (Chapter 354A, Section 40B) Workplace Safety And Health (Approved Codes of Practice) Notification 2020.
Workplace Safety And Health Act (Chapter 354A, Section 65) Workplace Safety And Health (General Provisions) (Amendment No.2) Regulations 2024

Global inventory status:

Regulatory list	Notification
TCSI	yes
TSCA	yes
DSL	yes
ENCS (JP)	yes
KECI (KR)	yes
IECSC	yes

Section 16. Other information

Disclaimer: This Safety Data Sheet has been generated based on Workplace Safety And Health Act (Chapter 354A, Section 40B) Workplace Safety And Health (Approved Codes of Practice) Notification 2020 and Workplace Safety And Health Act (Chapter 354A, Section 65) Workplace Safety And Health (General Provisions) (Amendment No.2) Regulations 2024 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.
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