Safety Data Sheet in compliance with Indian Manufacture, Storage and Import of Hazardous Chemical (Amendment) Rules, 2000

000000242144

MSDS-No. : 242144
V001.0
Revision: 03.06.2016
printing date: 06.03.2020

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

Product identifier
000000242144
Material:

Relevant identified uses of the substance or mixture and uses advised against
Intended use:
Lubricant

Identification of manufacturer, importer or distributor:
Manufacturer: Henkel Adhesives Technologies India Pvt. Ltd. D3/D4, MIDC, Jejuri - 412303 India. TEL : +91 9272203768 FAX : +91 2115 253248, Website : www.henkel.com

Emergency telephone number
+91 9272203768

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification (DPD):
Xi - Irritant
R41 Risk of serious damage to eyes.
Dangerous for the environment
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Label elements

Label elements (DPD):

Risk phrases:
R41 Risk of serious damage to eyes.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S39 Wear eye/face protection.
S57 Use appropriate container to avoid environmental contamination.
S60 This material and its container must be disposed of as hazardous waste.

SECTION 3: Composition/information on ingredients

Declaration of ingredients according to DPD (EC) No 1999/45:

Hazardous components CAS-No.	EC Number	content	Classification
Calcium dihydroxide 1305-62-0	215-137-3	>= 10 - <= 30 %	Xi - Irritant; R37/38, R41
Copper 7440-50-8	231-159-6	>= 10 - <= 30 %	N - Dangerous for the environment; R50/53
Quartz (SiO2) "respirable particulates (reaches the alveoli)" (RCS) >=1% - <10% 14808-60-7	238-878-4	>= 0,1 - <= 20 %	Xn - Harmful; R48/20
Middle petroleum distillate 64741-44-2	265-044-7	>= 0,1 - <= 20 %	Xn - Harmful; R65 R66

For full text of the R-Phrases indicated by codes see section 16 'Other Information'.
Substances without classification may have community workplace exposure limits available.

Section 4. First aid measures

Inhalation: Move to fresh air. If symptoms persist, seek medical advice.

Skin contact: Rinse with running water and soap.
Obtain medical attention if irritation persists.

Eye contact: Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

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

Section 5. Fire fighting measures

Suitable extinguishing media: Carbon dioxide, foam, powder

Improper extinguishing media: None known

Specific hazards arising from the chemical: In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released.

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

Personal precautions: Avoid skin and eye contact.

Environmental precautions: Do not let product enter drains.

Clean-up methods: For small spills wipe up with paper towel and place in container for disposal.
For large spills absorb onto inert absorbent material and place in sealed container for disposal.

SECTION 7: Handling and storage

Precautions for safe handling

Use only in well-ventilated areas.
Avoid skin and eye contact.
Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation.

Conditions for safe storage, including any incompatibilities

Store in original containers at 8-21°C (46.4-69.8°F) and do not return residual materials to containers as contamination may reduce the shelf life of the bulk product.

Section 8. Exposure controls / personal protection

Ingredient [Regulated substance]	Value type	ppm	mg/m^3	Remarks
COPPER FUME 7440-50-8	Time Weighted Average (TWA):		0,2	IN OEL
SILICA: QUARTZ, TOTAL DUST 14808-60-7	Time Weighted Average (TWA):		0,291	IN OEL The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation.

Respiratory protection:

Ensure adequate ventilation.
An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area
Filter type: A (EN 14387)

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):
nitrile rubber (NBR; >= 0.4 mm thickness)
Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):
nitrile rubber (NBR; >= 0.4 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:

Wear protective glasses.

Body protection:

Wear suitable protective clothing.

Engineering controls:

Use local ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.

Hygienic measures:

Keep away from food, beverages and animal feed. Wash hands before work breaks and after finishing work. Do not eat, drink or smoke while working. Good industrial hygiene practices should be observed.

SECTION 9: Physical and chemical properties

Appearance: copper
Smooth
Odor: No data available.
Odor threshold (CA): No data available.
pH: No data available.

Melting point / freezing point:	No data available.
Specific gravity:	1,30
Boiling point:	> 260 °C (> 500 °F)
Flash point:	> 93 °C (> 199.4 °F)
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:	1,3 g/cm3
Solubility:	Solvent: Water, Insoluble
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:	Reaction with strong acids. Reacts with strong oxidants. See section reactivity
Chemical stability:	Stable under recommended storage conditions.
Conditions to avoid:	No decomposition if used according to specifications.
Hazardous decomposition products:	Oxides of carbon. Hydrocarbons

SECTION 11: Toxicological information

Information on toxicological effects

General toxicological information:
No laboratory animal data available.

Acute oral toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Calcium dihydroxide 1305-62-0	LD50	> 7.340 mg/kg	oral		rat	OECD Guideline 401 (Acute Oral Toxicity)

Acute inhalative toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Copper 7440-50-8	LC50	> 5,11 mg/l	inhalation	4 h	rat	OECD Guideline 436 (Acute Inhalation Toxicity: Acute Toxic Class (ATC) Method)

Acute dermal toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Calcium dihydroxide 1305-62-0	LD50	> 2.500 mg/kg	dermal		rat	OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Calcium dihydroxide 1305-62-0	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Calcium dihydroxide 1305-62-0	Category 1 (irreversible effects on the eye)		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Copper 7440-50-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Copper 7440-50-8	negative	oral: gavage		mouse	EU Method B.12 (Mutagenicity

SECTION 12: Ecological information

General ecological information:
Do not empty into drains / surface water / ground water / soil.

Toxicity

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Calcium dihydroxide 1305-62-0	LC50	50,6 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Calcium dihydroxide 1305-62-0	EC50	49,1 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Calcium dihydroxide 1305-62-0	EC50	184,57 mg/l	Algae	72 h	Pseudokirchnerella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
	NOEC	48 mg/l	Algae	72 h	Pseudokirchnerella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Calcium dihydroxide 1305-62-0	EC20	229,2 mg/l	Bacteria	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Calcium dihydroxide 1305-62-0	NOEC	32 mg/l	chronic Daphnia	14 d	Crangon septemspinosa	OECD Guideline 202 (Daphnia sp. Chronic Immobilisation Test)

Persistence and degradability

No data available.

Bioaccumulative potential / Mobility in soil

No data available.

Results of PBT and vPvB assessment

Hazardous components **CAS-No.**	**PBT/vPvB**
Calcium dihydroxide 1305-62-0	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Copper 7440-50-8	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Quartz (SiO2) "respirable particulates (reaches the alveoli)" (RCS) >=1% - <10% 14808-60-7	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

Section 13. Disposal considerations

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

Disposal for uncleaned package: Dispose of in accordance with local and national regulations.

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:

Class:	9
Packing group:	III
UN no.:	3082
Label:	9
EmS:	F-A ,S-F
Seawater pollutant:	Marine pollutant
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper)

Air transport IATA:
Not dangerous goods

Section 15. Regulations - classification and identification

Calcium dihydroxide	IBC Code. International Bulk Chemical Code, Chapter 17, Minimum Requirements
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	OECD. Program to investigate the potential hazards of high production volume chemicals (HPV), including decisions on the need for further work.
Copper	Global Automotive Declarable Substances List (GADSL), Version 1.3
	India. List of Hazardous Chemicals (Manufacture, Storage and Import of Hazardous Chemical Rules, Schedule I (Part II).
	OECD. Program to investigate the potential hazards of high production volume chemicals (HPV), including decisions on the need for further work.
Quartz (SiO2) "respirable particulates (reaches the alveoli)" (RCS) >=1% - <10%	American Cleaning Institute (ACI) Cleaning Product Ingredient Inventory
	ASD-STAN. ASD Technical Report 9536, Declarable Substances
	Global Automotive Declarable Substances List (GADSL), Version 1.3
	OECD. Program to investigate the potential hazards of high production volume chemicals (HPV), including decisions on the need for further work.
	IAEG. Aerospace and Defense Declarable Substances List
	IAEG. Aerospace and Defense Declarable Substances List
Middle petroleum distillate	OECD. Program to investigate the potential hazards of high production volume chemicals (HPV), including decisions on the need for further work.

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:

R37/38 Irritating to respiratory system and skin.
R41 Risk of serious damage to eyes.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.

Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.

Disclaimer: 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.