

Safety Data Sheet HARCOSIL 29-97 17-HCS-5

according to Regulation
(EC) No. 1907/2006 (REACH)
with its amendment Regulation (EC) No. 453/2010
Federal register / vol 77 n° 58 03/26/2012
Rules & regulations

Date of issue: Revision date:2024-06-28 Supersedes: n/a Version: 1.0

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

1.1. Product identifier

Product form : Mastic coating
Product name : HARCOSIL 29-97
Product Code : 17-HCS-5
Type of product : Top coating

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

1.2.1. Relevant identified uses

Main use category : Industrial use / Professional use
Industrial/Professional use spec : Wide dispersive use
Use of the substance/mixture : Coating

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Neptune Coatings Inc
4260 Wagon Trail Avenue
Las Vegas, NV 89118 USA
T +1 (702) 410 5500 - F +1 (702) 410 5889
info@neptunecoatings.com

Informations : +1 702 751 0460 & Neptune Coatings working days +1 702 410 5500 9 AM to 5PM

1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number
United States	Neptune Coatings Emergency number (English Speaking)	Las Vegas NV	Call CHEMTREC: Toll Free: 1-800-424-9300/ +1 703-527-3887
United States	National Capital Poison Center		+ 1 800 222 1222
United Kingdom	NPIS Edinburgh (Scottish Poisons Information Bureau) Royal Infirmary of Edinburgh	51 Little France Crescent EH16 4SA Edinburgh	0844 892 0111
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241
Belgique	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn 1 1120 Bruxelles/Brussel	+32 70 245 245
France	Centre Antipoison Hôpital Edouard Herriot	5 Place d'Arsonval F-69437 Lyon Cedex 03	+33 4 72 11 69 11
Netherland	Nationaal Vergiftigingen Informatie Centrum	Huispostnummer B.00.118 PO Box 85500 3508 GA Utrecht	+31 30 274 88 88

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Mixture/Substance: SDS EU 2015: According to Annex II of Regulation (EC) No. 453/2010 (REACH Annex II)

Flamable liquid Category 3

Skin Sensitivity: Category 1

Full text of classification categories and H statement: see section 16

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Extra labelling to display Extra classification(s) to display

Hazard pictograms (CLP)

:



Signal word (CLP)

:

Warning

Hazardous ingredients

:

Hazard statements (CLP)

:

H226: Flamable liquid and vapour
H317: May cause an allergic skin reaction.

Precautionary statements (CLP)

:

P280 - Wear protective gloves/protective clothing/eye protection/face protection
P272 - Contaminated work clothes should not be allowed out of the workplace
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P210 - Keep away from heat/sparks/open flames - No smoking
P333+P313 - IF SKIN irritation or rash occurs: Get medical advice/attention
P362+P364 - Take off contaminated clothing and wash it before reuse
P370+P378 - In case of fire: Use water mist/carbon dioxide/alcohol-resistant foam to extinguish
P501 - Dispose of content and container in accordance with existing federal, state and local environmental control laws

2.3. Other hazards

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

SECTION 3: Composition/information on ingredients

3.1. Substance

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP] & GHS
Butan-2-one O,O',O"- (methylsilylidyne)trioxime	(CAS No) 22984-54-9	3-5%	Acute Tox. 4, H312 Skin Sens. 1, H317 Eye Irrit. 2, H319
3-aminopropyltriethoxysilane	(CAS No) 919-30-2	<1%	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Skin Sens. 1, H317
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	(CAS No) 13463-67-7	5-10%	Carc 2 H351
Quartz	(CAS No) 14808-60-7	25-40%	Carc 1A H350

The specific chemical identity and/or exact percentage of component(s) have been withheld as a trade secret.

There is no additional ingredient present with, with the current knowledge of the supplier and in the concentration applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

3.2. Mixture

No information available

Full text of H-phrases: see section 16

SECTION 4: First aid measures

1. Description of first aid measures

General information

If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid).

Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.

Eye contact

If in eyes: Flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Remove contact lenses. Seek medical assistance and continue flushing during transport.

Ingestion

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.

In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

Burns

Not applicable.

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

None known.

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

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Treat symptomatically.

Information to medics

Bring this safety data sheet or the label from this product

SECTION 5: Firefighting measures

1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.
Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

2. Special hazards arising from the substance or mixture

Combustible liquid

In use may form flammable/explosive vapour-air mixture.

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the Poison Help Line in order to obtain further advice.

SECTION 6: Accidental release measures

1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.
Ensure adequate ventilation, especially in confined areas. Contaminated areas may be slippery.

2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. Keep unauthorized persons away from the spill

3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.
Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.
See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

1. Precautions for safe handling

Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material

Always store in containers of the same material as the original container.

Liquid class

Combustible Liquid / Class IIIA (NFPA 30)

Storage temperature

No specific requirements

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: Exposure controls/personal protection

1. Control parameters

Quartz (SiO₂)

Long term exposure limit (ACGIH TLV) (mg/m³): 0.025 (resp.) for α-quartz and cristobalite Long term exposure limit (NIOSH REL) (mg/m³): Potential occupational carcinogen; 0.05

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] Long term exposure limit (ACGIH TLV) (mg/m³): 10
Long term exposure limit (NIOSH REL) (mg/m³): Potential occupational carcinogen; (ultrafine particles) / 2.4 (fine) / 0.3 (ultrafine)

Part 1910 - Occupational Safety and Health Standards (29 CFR 1910.1000 TABLE Z-1 - Limits for Air Contaminants)

2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.
Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

Measures to avoid environmental exposure

No specific requirements.

Individual protection measures, such as personal protective equipment

Generally

Use only protective equipment with a recognized certification mark, e.g. the UL mark.

Respiratory Equipment

Type	Class	Colour	Standards
Combination filter A2B2E2K1-P2	Class 1/2	Brown/Gray/Yellow/Green /White	EN14387



Skin protection

Recommended	Type/Category	Standards
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Dedicated work clothing should be worn.



Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
Gloves	-	-	EN374



Eye protection

Type	Standards
Safety glasses	EN166



SECTION 9: Physical and chemical properties

1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

White

Odour

Faint

Odour threshold (ppm)

Testing not relevant or not possible due to the nature of the product.

pH

Testing not relevant or not possible due to the nature of the product.

Density (g/cm³)

1.32

Relative density

1.32 (77 °F)

Kinematic viscosity

Testing not relevant or not possible due to the nature of the product.

Dynamic viscosity 4000 mPa.s (77 °F)

Phase changes

Melting point (°F)

Testing not relevant or not possible due to the nature of the product.

Softening point/range (waxes and pastes) (°F)

Does not apply to liquids.

Boiling point (°F)

Testing not relevant or not possible due to the nature of the product.

Vapour pressure

Testing not relevant or not possible due to the nature of the product.

Vapour density

Testing not relevant or not possible due to the nature of the product.

Decomposition temperature (°F)

Testing not relevant or not possible due to the nature of the product.

Data on fire and explosion hazards

Flash point (°F)

165

Flash point (°C) 74

Flash Point Method: ASTM D-93.

Flammability (°F)

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Testing not relevant or not possible due to the nature of the product.

Auto-ignition temperature (°F)

Testing not relevant or not possible due to the nature of the product.

Explosion limits (% v/v)

Testing not relevant or not possible due to the nature of the product.

Solubility

Solubility in water

Insoluble

n-octanol/water coefficient

Testing not relevant or not possible due to the nature of the product.

Solubility in fat (g/L)

Testing not relevant or not possible due to the nature of the product.

2. Other information

VOC (g/L)

49

Other physical and chemical parameters

No data available.

Oxidizing properties

Testing not relevant or not possible due to the nature of the product.

SECTION 10: Stability and reactivity

1. Reactivity

No data available.

2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

3. Possibility of hazardous reactions

None known.

4. Conditions to avoid

Moisture

Water

Water mist

5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

1. Information on toxicological effects

Acute toxicity

Product/substance	Butan-2-one O,O',O''-(methylsilyldiylidene)trioxime
Species:	Rabbit
Route of exposure:	Oral
Test:	NOEC
Result:	10 mg/kg

Product/substance	Butan-2-one O,O',O''-(methylsilyldiylidene)trioxime
Species:	Rat
Route of exposure:	Oral

Test: LD50
Result: 2463 mg/kg

Product/substance 3-aminopropyltriethoxysilane

Species: Rat
Route of exposure: Oral
Test: LD50
Result: 1490 mg/kg

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Based on available data, the classification criteria are not met.

Respiratory sensitisation

Based on available data, the classification criteria are not met.

Skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Long term effects

None known.

Other information

Quartz (SiO₂) has been classified by IARC as a group 1 carcinogen.

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] has been classified by IARC as a group 2B carcinogen.

SECTION 12: Ecological information

1. Toxicity

No data available.

2. Persistence and degradability

No data available.

3. Bioaccumulative potential

No data available.

4. Mobility in soil

No data available.

5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

6. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Regional legislation (waste) : Disposal must be done according to official regulations.
- Sewage disposal recommendations : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Do

SECTION 14: Transport information

14.1 UN / ID	14.2 UN proper shipping	14.3 Hazard	14.4 PG*	14.5 Env**	Other
DOT See below for	NA1993 NA 1993 / COMBUSTIBLE LIQUID, N.O.S. Classification code: Comb liq			III	No
					addit ional infor mati on.
IMDG	-	-	-	-	-
IATA	-	-	-	-	-

* Packing group

** Environmental hazards

▼ Additional information

DOT / See § 172.101 Hazardous Materials Table for any information on special provisions, requirements, or warnings in connection with transport. See § 172.602, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

This product is within scope of the regulations of transport of dangerous goods.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

SECTION 15: Regulatory information

1. Safety, health and environmental regulations/legislation specific for the substance or mixture
2. U.S. Federal regulations

TSCA (the non-confidential portion)

Quartz (SiO₂) is listed

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] is listed
Butan-2-one O,O',O''-(methylsilyldiylidene)trioxime is listed

3-aminopropyltriethoxysilane is listed

Clean Air Act

None of the components are listed

EPCRA Section 302

None of the components are listed

EPCRA Section 304

None of the components are listed

EPCRA section 313

None of the components are listed

CERCLA

None of the components are listed

State regulations

California / Prop. 65

None of the components are listed

Massachusetts / Right

To Know Act Quartz

(SiO₂) is listed

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] is listed

New Jersey / Right To Know Act

Quartz (SiO₂) / Substance number: 1660

Quartz (SiO₂) is on the Special Health Hazard Substance List

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] /
Substance number: 1861

New York / Right To Know Act

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] is listed
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] is regulated with a Threshold Reporting Quantity (TRQ) of: 100 pounds

Pennsylvania / Right To

Know Act Quartz

(SiO₂) is listed

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] is listed

4. Restrictions for application

Restricted to professional users.

5. Demands for specific education

No specific requirements.

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6. Additional information
Not applicable.
7. Chemical safety assessment
No
8. Sources
OSHA Hazard Communication Standard (29 CFR 1910.1200)

SECTION 16: Other information

Full text of H-phrases as mentioned in

section 3 H302, Harmful if
swallowed.
H312, Harmful in contact with skin.
H314, Causes severe skin burns and
eye damage. H317, May cause an
allergic skin reaction.
H319, Causes serious
eye irritation. H350,
May cause cancer.
H351, Suspected of causing cancer.

The full text of identified uses as mentioned in section 1 None known.

Abbreviations and acronyms

ACGIH = American Conference of Governmental Industrial Hygienists
ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland
Waterway ADR = The European Agreement concerning the International Carriage of Dangerous
Goods by Road
ATE = Acute
Toxicity Estimate
BCF =
Bioconcentration
Factor CAS =
Chemical Abstracts
Service
CERCLA = Comprehensive Environmental Response Compensation and
Liability Act DOT = Department of Transportation
EINECS = European Inventory of Existing Commercial chemical
Substances EPCRA = Emergency Planning and Community Right-
To-Know Act
GHS = Globally Harmonized System of Classification and Labelling of
Chemicals HCIS = Hazardous Chemical Information System
HNOC = Hazards Not Otherwise Classified
IARC = International Agency for
Research on Cancer IATA =
International Air Transport Association
IMDG = International Maritime
Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the
Protocol of 1978. ("Marpol" = marine pollution)
NFPA = National Fire Protection Association
NIOSH = National Institute for Occupational Safety and
Health OECD = Organisation for Economic Co-
operation and Development OSHA = Occupational
Safety and Health Administration
PBT = Persistent, Bioaccumulative
and Toxic RCRA = Resource
Conservation and Recovery Act
RID = The Regulations concerning the International Carriage of Dangerous
Goods by Rail RRN = REACH Registration Number
SARA = Superfund Amendments and

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Reauthorization Act SCL = A specific concentration limit.

STEL = Short-term exposure limits

STOT-RE = Specific Target Organ Toxicity -

Repeated Exposure STOT-SE = Specific Target

Organ Toxicity - Single Exposure TSCA = The

Toxic Substances Control Act

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by HCS (29 CFR 1910.1200).

▼ Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: US-en

SDS (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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