

HIT-HY 200-A V3

Safety information for 2-Component-products

Issue date: 13/04/2023

Revision date: 13/04/2023

Supersedes: 09/07/2021

Version: 1.1

SECTION 1: Kit identification

1.1 Product identifier

Product name

HIT-HY 200-A V3



Product code

BU Anchor

1.2 Details of the supplier of the Safety information for 2-Component-products

Hilti, Inc.
Legacy Tower, Suite 1000
7250 Dallas Parkway
TX 75024 Plano - USA
T +1 9724035800
1-800-879-8000 toll free - F +1 918 254 0522

SECTION 2: General information

Storage

Storage temperature : 5 - 25 °C

A SDS for each of these components is included. Please do not separate any component SDS from this cover page

This Kit should be handled in accordance with good laboratory practices and appropriate personal protective equipment should be used

SECTION 3: Kit contents

Classification of the Product

GHS-US classification

Eye Irrit. 2 H319 - Causes serious eye irritation.
Skin Sens. 1 H317 - May cause an allergic skin reaction.

Label elements

GHS US labelling

Hazard pictograms (GHS US)



GHS07

Signal word (GHS US)

Warning

Hazardous ingredients

methacrylates, dibenzoyl peroxide

Hazard statements (GHS US)

May cause an allergic skin reaction.
Causes serious eye irritation.

Precautionary statements (GHS US)

Wear eye protection, protective clothing, protective gloves.
Do not get in eyes, on skin, or on clothing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

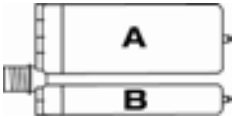
HIT-HY 200-A V3

Safety information for 2-Component-products

and easy to do. Continue rinsing.
 If skin irritation or rash occurs: Get medical advice/attention.
 If eye irritation persists: Get medical advice/attention.
 If on skin: Wash with plenty of water.

Additional information

2-Component-foilpack, contains:
 Component A: Urethane methacrylate resin, inorganic filler
 Component B: Dibenzoyl peroxide, phlegmatized



| Name | General description | Quantity | Unit | GHS-US classification |
|--------------------|---------------------|----------|--------------|--|
| HIT-HY 200-A V3, B | | 1 | pcs (pieces) | Eye Irrit. 2, H319 Skin Sens. 1, H317 |
| HIT-HY 200-A V3, A | | 1 | pcs (pieces) | Skin Sens. 1, H317 |

SECTION 4: General advice

General advice For professional users only

SECTION 5: Safe handling advice

| | |
|-------------------------------|---|
| General measures | Spilled material may present a slipping hazard |
| Environmental precautions | Prevent entry to sewers and public waters Notify authorities if liquid enters sewers or public waters |
| Storage conditions | Keep cool. Protect from sunlight. |
| Precautions for safe handling | Wear personal protective equipment Avoid contact with skin and eyes Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work Provide good ventilation in process area to prevent formation of vapour |
| Methods for cleaning up | This material and its container must be disposed of in a safe way, and as per local legislation Mechanically recover the product Store away from other materials. |
| For containment | Collect spillage. |
| Incompatible materials | Sources of ignition Direct sunlight |
| Incompatible products | Strong bases Strong acids |

SECTION 6: First aid measures

First-aid measures after eye contact Rinse immediately with plenty of water
 Remove contact lenses, if present and easy to do. Continue rinsing.
 Obtain medical attention if pain, blinking or redness persists

HIT-HY 200-A V3

Safety information for 2-Component-products

| | |
|---------------------------------------|---|
| First-aid measures after ingestion | Rinse mouth Get medical advice/attention. Do not induce vomiting Obtain emergency medical attention |
| First-aid measures after inhalation | Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air Allow the victim to rest |
| First-aid measures after skin contact | Wash contaminated clothing before reuse. Wash with plenty of water/... If skin irritation or rash occurs: Get medical advice/attention. |
| First-aid measures general | Take off immediately all contaminated clothing. Never give anything by mouth to an unconscious person If you feel unwell, seek medical advice (show the label where possible) |
| Symptoms/effects after eye contact | Causes serious eye irritation. |
| Symptoms/effects after skin contact | May cause an allergic skin reaction. |

SECTION 7: Fire fighting measures

| | |
|--|--|
| Firefighting instructions | Use water spray or fog for cooling exposed containers Exercise caution when fighting any chemical fire Prevent fire fighting water from entering the environment |
| Protection during firefighting | Self-contained breathing apparatus Do not enter fire area without proper protective equipment, including respiratory protection |
| Hazardous decomposition products in case of fire | Thermal decomposition generates : Carbon dioxide Carbon monoxide |

SECTION 8: Other information

No data available

HIT-HY 200-A V3, A

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 4/13/2023 Issue date: 4/13/2023 Supersedes: 7/9/2021 Version: 1.1

SECTION 1: Identification

1.1. Identification

| | |
|--------------|--------------------|
| Product form | Mixture |
| Product name | HIT-HY 200-A V3, A |
| Product code | BU Anchor |

1.2. Recommended use and restrictions on use

| | |
|------------------------------|---|
| Use of the substance/mixture | Composite mortar component for fasteners in the construction industry |
| Recommended use | For professional use only |

1.3. Supplier

Supplier

Hilti, Inc.
Legacy Tower, Suite 1000
7250 Dallas Parkway
Plano, TX 75024
USA
T +1 9724035800
1-800-879-8000 toll free - F +1 918 254 0522

Department issuing data specification sheet

Hilti Entwicklungsgesellschaft mbH
Hiltistraße 6
Kaufering, 86916
Deutschland
T +49 8191 906876
anchor.hse@hilti.com

1.4. Emergency telephone number

| | |
|------------------|---|
| Emergency number | Chem-Trec Tel.: 1 800 424 9300 (USA, PR, Virgin Islands, Canada) Tel.: 703 527 3887 (Other countries) +1 918 8723000 1-800-879-8000 toll free |
|------------------|---|

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

| | | |
|---|------|--------------------------------------|
| Skin sensitisation, Category 1 | H317 | May cause an allergic skin reaction. |
| Full text of H-statements: see section 16 | | |

2.2. GHS Label elements, including precautionary statements

GHS US labelling

Hazard pictograms (GHS US)



Signal word (GHS US)

Warning

Hazard statements (GHS US)

H317 - May cause an allergic skin reaction.

Precautionary statements (GHS US)

P280 - Wear eye protection, protective clothing, protective gloves.

P262 - Do not get in eyes, on skin, or on clothing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

HIT-HY 200-A V3, A

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
 P337+P313 - If eye irritation persists: Get medical advice/attention.
 P302+P352 - If on skin: Wash with plenty of water.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | GHS-US classification |
|---|---------------------|---------|--|
| Quartz (SiO ₂) | CAS-No.: 14808-60-7 | 40 – 60 | Carc. 1A, H350 |
| 2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester | CAS-No.: 2082-81-7 | 10 – 25 | Skin Sens. 1B, H317 |
| 2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol | CAS-No.: 27813-02-1 | 5 - 8 | Eye Irrit. 2A, H319 Skin Sens. 1, H317 |
| 1,1'-(p-tolylimino)dipropan-2-ol | CAS-No.: 38668-48-3 | 0.1 – 1 | Acute Tox. 2 (Oral), H300 Eye Irrit. 2A, H319 |

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general

Take off immediately all contaminated clothing. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation

Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact

Wash contaminated clothing before reuse. Wash with plenty of water/... If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact

Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion

Rinse mouth. Get medical advice/attention. Do not induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects (acute and delayed)

Potential adverse human health effects and symptoms

No additional information available.

Symptoms/effects after skin contact

May cause an allergic skin reaction.

Symptoms/effects after eye contact

May cause severe irritation.

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

HIT-HY 200-A V3, A

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media Water spray. Carbon dioxide. Dry powder. Foam. Sand.
Unsuitable extinguishing media Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire Thermal decomposition generates : Carbon dioxide. Carbon monoxide.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting Self-contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures Spilled material may present a slipping hazard.

6.1.1. For non-emergency personnel

Emergency procedures Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment Use personal protective equipment as required. Equip cleanup crew with proper protection.
Emergency procedures Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment Collect spillage.
Methods for cleaning up This material and its container must be disposed of in a safe way, and as per local legislation. Mechanically recover the product. Store away from other materials.
Other information Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling Wear personal protective equipment. Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.
Hygiene measures Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Keep cool. Protect from sunlight.
Incompatible products Strong bases. Strong acids.
Incompatible materials Sources of ignition. Direct sunlight.
Storage temperature 5 – 25 °C

HIT-HY 200-A V3, A

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Heat and ignition sources

Keep away from heat and direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| HIT-HY 200-A V3, A | |
|--|--|
| USA - OSHA - Occupational Exposure Limits | |
| Local name | Quartz (Total Dust) (Silica: Crystalline) |
| Remark (OSHA) | Table Z-3. For OSHA PEL (TWA) use formula: $(30 \text{ mg/m}^3 / (\% \text{SiO}_2 + 2))$ for mg/m^3 . CAS No. source: eCFR Table Z-1. |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-3 Mineral Dusts |

Quartz (SiO₂) (14808-60-7)

USA - ACGIH - Occupational Exposure Limits

| | |
|----------------------|--|
| Local name | Silica crystalline - quartz |
| ACGIH OEL TWA | 0.025 mg/m ³ (Respirable fraction) |
| Remark (ACGIH) | TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen) |
| Regulatory reference | ACGIH 2022 |

USA - OSHA - Occupational Exposure Limits

| | |
|---------------|---|
| Local name | Silica, crystalline quartz, respirable dust |
| Remark (OSHA) | (3) See Table Z-3. |

1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)

No additional information available

2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)

No additional information available

2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)

No additional information available

Additional information

The product has a pasty consistency. Exposure limit values for respirable dusts are not relevant for this product.

8.2. Appropriate engineering controls

| | |
|----------------------------------|------------------------------|
| Appropriate engineering controls | Ensure adequate ventilation. |
| Environmental exposure controls | Not applicable. |

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Safety glasses. Gloves. Protective clothing. Avoid all unnecessary exposure.

Materials for protective clothing:

Long sleeved protective clothing

HIT-HY 200-A V3, A

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| Hand protection: | | | | |
|---|----------------------|-------------------|----------------|-------------|
| Wear protective gloves. The permeation time is not the maximum wearing time! Generally speaking, it must be reduced. Contact with either mixtures of substances or different substances may shorten the protective function's effective duration. | | | | |
| Type | Material | Permeation | Thickness (mm) | Penetration |
| Disposable gloves | Nitrile rubber (NBR) | 6 (> 480 minutes) | 0,12 | |

| Eye protection: | | |
|---|----------------------|-----------------|
| Wear security glasses which protect from splashes | | |
| Type | Field of application | Characteristics |
| Safety glasses | Droplet | clear |

Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---------------------------|
| Physical state | Solid |
| Appearance | Thixotropic paste. |
| Colour | Blue |
| Odour | characteristic |
| Odour threshold | Not determined |
| pH | No data available |
| Melting point | No data available |
| Freezing point | No data available |
| Boiling point | 240 °C |
| Flash point | > 109 °C DIN EN ISO 1523 |
| Relative evaporation rate (butylacetate=1) | No data available |
| Flammability (solid, gas) | Flammable. |
| Vapour pressure | No data available |
| Relative vapour density at 20°C | No data available |
| Relative density | No data available |
| Density | 1.8 g/ml AW 4.3.23 |
| Solubility | Water: % Not miscible |
| Partition coefficient n-octanol/water (Log Pow) | No data available |
| Auto-ignition temperature | Not self-igniting |
| Decomposition temperature | No data available |
| Viscosity, kinematic | No data available |
| Viscosity, dynamic | 35 – 65 Pa·s (HN-0333) |
| Explosive limits | No data available |
| Explosive properties | Product is not explosive. |
| Oxidising properties | No data available |

HIT-HY 200-A V3, A

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|----------------|
| Acute toxicity (oral) | Not classified |
| Acute toxicity (dermal) | Not classified |
| Acute toxicity (inhalation) | Not classified |

1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)

| | |
|-----------------|--------------|
| LD50 oral rat | 25 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |

2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)

| | |
|-----------------|--------------|
| LD50 oral rat | 10066 mg/kg |
| LD50 dermal rat | > 3000 mg/kg |

2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)

| | |
|--------------------|---|
| LD50 oral rat | > 5000 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; >=2000 mg/kg bodyweight; Rat; Experimental value) |
| LD50 dermal rabbit | ≥ 5000 mg/kg bodyweight (Rabbit; Experimental value) |

| | |
|-----------------------------------|--------------------------------------|
| Skin corrosion/irritation | Not classified |
| Serious eye damage/irritation | Not classified |
| Respiratory or skin sensitisation | May cause an allergic skin reaction. |
| Germ cell mutagenicity | Not classified |
| Carcinogenicity | Not classified |

Quartz (SiO₂) (14808-60-7)

| | |
|------------|----------------------------|
| IARC group | 1 - Carcinogenic to humans |
|------------|----------------------------|

HIT-HY 200-A V3, A

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| Quartz (SiO₂) (14808-60-7) | |
|---|--------------------------------------|
| National Toxicology Program (NTP) Status | Known Human Carcinogens |
| Reproductive toxicity | Not classified |
| STOT-single exposure | Not classified |
| STOT-repeated exposure | Not classified |
| Aspiration hazard | Not classified |
| Viscosity, kinematic | No data available |
| Potential adverse human health effects and symptoms | No additional information available. |
| Symptoms/effects after skin contact | May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | May cause severe irritation. |

SECTION 12: Ecological information

12.1. Toxicity

| 1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3) | |
|--|-----------|
| LC50 - Fish [1] | ≈ 17 mg/l |
| LC50 - Other aquatic organisms [1] | 245 mg/l |
| EC50 - Crustacea [1] | 28.8 mg/l |
| NOEC (acute) | 57.8 mg/l |

| 2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7) | |
|--|-----------|
| LC50 - Other aquatic organisms [1] | 9.79 mg/l |
| NOEC (acute) | 7.51 mg/l |
| NOEC (chronic) | 20 mg/l |

| 2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1) | |
|---|--|
| LC50 - Fish [1] | 493 mg/l (48 h; Leuciscus idus; GLP) |
| EC50 - Crustacea [1] | > 143 mg/l (48 h; Daphnia magna; GLP) |
| ErC50 algae | 97.2 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) |
| Threshold limit - Algae [1] | > 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP) |
| Threshold limit - Algae [2] | > 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP) |

12.2. Persistence and degradability

| HIT-HY 200-A V3, A | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

| Quartz (SiO₂) (14808-60-7) | |
|--|-----------------------------------|
| Not rapidly degradable | |
| Persistence and degradability | Biodegradability: not applicable. |
| Chemical oxygen demand (COD) | Not applicable (inorganic) |

HIT-HY 200-A V3, A

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| | |
|---|---|
| Quartz (SiO₂) (14808-60-7) | |
| ThOD | Not applicable (inorganic) |
| 2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7) | |
| Not rapidly degradable | |
| Biodegradation | 84 % |
| 2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1) | |
| Not rapidly degradable | |
| Persistence and degradability | Readily biodegradable in water. |
| 12.3. Bioaccumulative potential | |
| HIT-HY 200-A V3, A | |
| Bioaccumulative potential | Not established. |
| Quartz (SiO₂) (14808-60-7) | |
| Bioaccumulative potential | No bioaccumulation data available. |
| 1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3) | |
| Partition coefficient n-octanol/water (Log Kow) | 2.1 |
| 2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7) | |
| Partition coefficient n-octanol/water (Log Pow) | 3.1 |
| 2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1) | |
| BCF - Fish [1] | ≤ 100 |
| BCF - Fish [2] | 3.2 Quantitative structure-activity relationship (QSAR) |
| Partition coefficient n-octanol/water (Log Pow) | 0.97 (OECD 102 method) |
| Bioaccumulative potential | Low bioaccumulation potential (BCF < 500). |
| 12.4. Mobility in soil | |
| Quartz (SiO₂) (14808-60-7) | |
| Surface tension | No data available in the literature |
| Ecology - soil | Low potential for mobility in soil. |
| 2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1) | |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.9 (log Koc, Calculated value) |
| Ecology - soil | Highly mobile in soil. |
| 12.5. Other adverse effects | |
| Other information | Avoid release to the environment. |

HIT-HY 200-A V3, A

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional legislation (waste)

Product/Packaging disposal recommendations

Ecology - waste materials

Disposal must be done according to official regulations.

After curing, the product can be disposed of with household waste. . Full or only partially emptied cartridges must be disposed of as special waste in accordance with official regulations. Packaging contaminated by the product : Dispose in a safe manner in accordance with local/national regulations.

Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID

| ADR | IMDG | IATA | RID |
|---|---------------|---------------|---------------|
| 14.1. UN number or ID number | | | |
| Not regulated | Not regulated | Not regulated | Not regulated |
| 14.2. UN proper shipping name | | | |
| Not regulated | Not regulated | Not regulated | Not regulated |
| 14.3. Transport hazard class(es) | | | |
| Not regulated | Not regulated | Not regulated | Not regulated |
| 14.4. Packing group | | | |
| Not regulated | Not regulated | Not regulated | Not regulated |
| 14.5. Environmental hazards | | | |
| Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available | | | |

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

HIT-HY 200-A V3, A

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 15: Regulatory information

15.1. US Federal regulations


All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.2. International regulations

Quartz (SiO₂) (14808-60-7)

Listed on IARC (International Agency for Research on Cancer)

15.3. US State regulations

 **WARNING:** This product can expose you to 1,2-dihydroxybenzene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date

04/13/2023

Other information

None.

Full text of H-statements

| | |
|------|--------------------------------------|
| H300 | Fatal if swallowed. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H350 | May cause cancer. |

Abbreviations and acronyms

| | |
|------|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC50 | Median effective concentration |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |

HIT-HY 200-A V3, A

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| Abbreviations and acronyms | |
|----------------------------|---|
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| vPvB | Very Persistent and Very Bioaccumulative |

NFPA health hazard

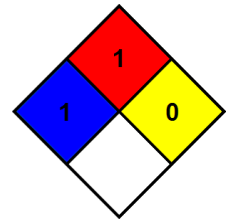
1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard

1 - Materials that must be preheated before ignition can occur.

NFPA reactivity

0 - Material that in themselves are normally stable, even under fire conditions.



| Indication of changes: | | | |
|------------------------|----------------------------------|----------|----------|
| Section | Changed item | Change | Comments |
| 9 | Physical and chemical properties | Modified | |

SDS_US_Hilti

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.

HIT-HY 200-A V3, B

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 4/13/2023 Issue date: 4/13/2023 Supersedes: 7/9/2021 Version: 1.1

SECTION 1: Identification

1.1. Identification

| | |
|--------------|--------------------|
| Product form | Mixture |
| Product name | HIT-HY 200-A V3, B |
| Product code | BU Anchor |

1.2. Recommended use and restrictions on use

| | |
|------------------------------|---|
| Use of the substance/mixture | Composite mortar component for fasteners in the construction industry |
| Recommended use | For professional use only |

1.3. Supplier

Supplier

Hilti, Inc.
Legacy Tower, Suite 1000
7250 Dallas Parkway
Plano, TX 75024
USA
T +1 9724035800
1-800-879-8000 toll free - F +1 918 254 0522

Department issuing data specification sheet

Hilti Entwicklungsgesellschaft mbH
Hiltistraße 6
Kaufering, 86916
Deutschland
T +49 8191 906876
anchor.hse@hilti.com

1.4. Emergency telephone number

| | |
|------------------|---|
| Emergency number | Chem-Trec Tel.: 1 800 424 9300 (USA, PR, Virgin Islands, Canada) Tel.: 703 527 3887 (Other countries) +1 918 8723000 1-800-879-8000 toll free |
|------------------|---|

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

| | | |
|---|------|--------------------------------------|
| Serious eye damage/eye irritation, Category 2 | H319 | Causes serious eye irritation. |
| Skin sensitisation, Category 1 | H317 | May cause an allergic skin reaction. |
| Full text of H-statements: see section 16 | | |

2.2. GHS Label elements, including precautionary statements

GHS US labelling

Hazard pictograms (GHS US)



Signal word (GHS US)

Warning

Hazard statements (GHS US)

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

Precautionary statements (GHS US)

P280 - Wear eye protection, protective clothing, protective gloves.

P262 - Do not get in eyes, on skin, or on clothing.

HIT-HY 200-A V3, B

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
 P337+P313 - If eye irritation persists: Get medical advice/attention.
 P302+P352 - If on skin: Wash with plenty of water.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | GHS-US classification |
|----------------------------|---------------------|---------|--|
| Quartz (SiO ₂) | CAS-No.: 14808-60-7 | 40 – 60 | Carc. 1A, H350 |
| dibenzoyl peroxide | CAS-No.: 94-36-0 | 10 - 15 | Org. Perox. B, H241 Eye Irrit. 2A, H319 Skin Sens. 1, H317 |

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|---|
| First-aid measures general | Take off immediately all contaminated clothing. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |
| First-aid measures after inhalation | Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest. |
| First-aid measures after skin contact | Wash contaminated clothing before reuse. Wash with plenty of water/... If skin irritation or rash occurs: Get medical advice/attention. |
| First-aid measures after eye contact | Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists. |
| First-aid measures after ingestion | Rinse mouth. Get medical advice/attention. Do not induce vomiting. Obtain emergency medical attention. |

4.2. Most important symptoms and effects (acute and delayed)

| | |
|-------------------------------------|--------------------------------------|
| Symptoms/effects after skin contact | May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | May cause severe irritation. |

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

| | |
|--------------------------------|--|
| Suitable extinguishing media | Water spray. Carbon dioxide. Dry powder. Foam. Sand. |
| Unsuitable extinguishing media | Do not use a heavy water stream. |

HIT-HY 200-A V3, B

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire Thermal decomposition generates : Carbon dioxide. Carbon monoxide.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting Self-contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures Spilled material may present a slipping hazard.

6.1.1. For non-emergency personnel

Emergency procedures Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment Use personal protective equipment as required. Equip cleanup crew with proper protection.

Emergency procedures Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment Collect spillage.

Methods for cleaning up This material and its container must be disposed of in a safe way, and as per local legislation. Mechanically recover the product. Store away from other materials.

Other information Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling Wear personal protective equipment. Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Keep cool. Protect from sunlight.

Incompatible products Strong bases. Strong acids.

Incompatible materials Sources of ignition. Direct sunlight.

Storage temperature 5 – 25 °C

Heat and ignition sources Keep away from heat and direct sunlight.

HIT-HY 200-A V3, B

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

HIT-HY 200-A V3, B

USA - ACGIH - Occupational Exposure Limits

| | |
|----------------------|--|
| Local name | Benzoyl peroxide |
| ACGIH OEL TWA | 5 mg/m ³ |
| Remark (ACGIH) | TLV® Basis: URT & skin irr. Notations: A4 (Not classifiable as a Human Carcinogen) |
| Regulatory reference | ACGIH 2023 |

USA - OSHA - Occupational Exposure Limits

| | |
|--------------------------------|--------------------------|
| Local name | Benzoyl peroxide |
| OSHA PEL TWA [1] | 5 mg/m ³ |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |

Quartz (SiO₂) (14808-60-7)

USA - ACGIH - Occupational Exposure Limits

| | |
|----------------------|--|
| Local name | Silica crystalline - quartz |
| ACGIH OEL TWA | 0.025 mg/m ³ (Respirable fraction) |
| Remark (ACGIH) | TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen) |
| Regulatory reference | ACGIH 2022 |

USA - OSHA - Occupational Exposure Limits

| | |
|---------------|---|
| Local name | Silica, crystalline quartz, respirable dust |
| Remark (OSHA) | (3) See Table Z-3. |

dibenzoyl peroxide (94-36-0)

USA - ACGIH - Occupational Exposure Limits

| | |
|----------------------|--|
| Local name | Benzoyl peroxide |
| ACGIH OEL TWA | 5 mg/m ³ |
| Remark (ACGIH) | TLV® Basis: URT & skin irr. Notations: A4 (Not classifiable as a Human Carcinogen) |
| Regulatory reference | ACGIH 2020 |

USA - OSHA - Occupational Exposure Limits

| | |
|--------------------------------|--------------------------|
| Local name | Benzoyl peroxide |
| OSHA PEL TWA [1] | 5 mg/m ³ |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |

Additional information The product has a pasty consistency. Exposure limit values for respirable dusts are not relevant for this product.

8.2. Appropriate engineering controls

Appropriate engineering controls Ensure adequate ventilation.
 Environmental exposure controls Not applicable.

HIT-HY 200-A V3, B

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Safety glasses. Gloves. Protective clothing. Avoid all unnecessary exposure.

Materials for protective clothing:

Long sleeved protective clothing

Hand protection:

Wear protective gloves. The permeation time is not the maximum wearing time! Generally speaking, it must be reduced. Contact with either mixtures of substances or different substances may shorten the protective function's effective duration.

| Type | Material | Permeation | Thickness (mm) | Penetration |
|-------------------|----------------------|-------------------|----------------|-------------|
| Disposable gloves | Nitrile rubber (NBR) | 6 (> 480 minutes) | 0,12 | |

Eye protection:

Wear security glasses which protect from splashes

| Type | Field of application | Characteristics |
|----------------|----------------------|-----------------|
| Safety glasses | Droplet | clear |

Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|------------------------------|
| Physical state | Solid |
| Appearance | Thixotropic paste. |
| Colour | white |
| Odour | characteristic |
| Odour threshold | Not determined |
| pH | 6 – 7 |
| Melting point | No data available |
| Freezing point | No data available |
| Boiling point | 100 °C |
| Flash point | No data available |
| Relative evaporation rate (butylacetate=1) | No data available |
| Flammability (solid, gas) | Flammable. |
| Vapour pressure | 23 hPa |
| Relative vapour density at 20°C | No data available |
| Relative density | No data available |
| Density | 1.9 g/cm ³ |
| Solubility | Water: % Miscible with water |
| Partition coefficient n-octanol/water (Log Pow) | No data available |
| Auto-ignition temperature | Not self-igniting |

HIT-HY 200-A V3, B

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| | |
|---------------------------|---------------------------|
| Decomposition temperature | No data available |
| Viscosity, kinematic | No data available |
| Viscosity, dynamic | 25 – 55 Pa·s HN-0333 |
| Explosive limits | No data available |
| Explosive properties | Product is not explosive. |
| Oxidising properties | No data available |

9.2. Other information

| | |
|------|--------------------------|
| SADT | 65 °C dibenzoyl peroxide |
|------|--------------------------|

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------------|---|
| Acute toxicity (oral) | Not classified |
| Acute toxicity (dermal) | Not classified |
| Acute toxicity (inhalation) | Not classified |
| Skin corrosion/irritation | Not classified pH: 6 – 7 |
| Serious eye damage/irritation | Causes serious eye irritation. pH: 6 – 7 |
| Respiratory or skin sensitisation | May cause an allergic skin reaction. |
| Germ cell mutagenicity | Not classified |
| Carcinogenicity | Not classified |

Quartz (SiO₂) (14808-60-7)

| | |
|--|----------------------------|
| IARC group | 1 - Carcinogenic to humans |
| National Toxicology Program (NTP) Status | Known Human Carcinogens |

dibenzoyl peroxide (94-36-0)

| | |
|-----------------------|----------------------|
| IARC group | 3 - Not classifiable |
| Reproductive toxicity | Not classified |
| STOT-single exposure | Not classified |

HIT-HY 200-A V3, B

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| | |
|-------------------------------------|--------------------------------------|
| STOT-repeated exposure | Not classified |
| Aspiration hazard | Not classified |
| Viscosity, kinematic | No data available |
| Symptoms/effects after skin contact | May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | May cause severe irritation. |

SECTION 12: Ecological information

12.1. Toxicity

dibenzoyl peroxide (94-36-0)

| | |
|----------------------|--|
| EC50 - Crustacea [1] | 0.11 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP) |
| LC50 - Fish [2] | 0.0602 mg/l (96h; Oncorhynchus mykiss; ECHA) |
| ErC50 algae | 0.0711 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) |
| NOEC (acute) | 0.0316 mg/l (96h; Oncorhynchus mykiss; ECHA) |
| NOEC chronic fish | 0.001 mg/l |

12.2. Persistence and degradability

HIT-HY 200-A V3, B

| | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |
|-------------------------------|------------------|

Quartz (SiO₂) (14808-60-7)

Not rapidly degradable

| | |
|-------------------------------|-----------------------------------|
| Persistence and degradability | Biodegradability: not applicable. |
| Chemical oxygen demand (COD) | Not applicable (inorganic) |
| ThOD | Not applicable (inorganic) |

dibenzoyl peroxide (94-36-0)

| | |
|-------------------------------|--|
| Persistence and degradability | Readily biodegradable in water. Not established. May cause long-term adverse effects in the environment. |
|-------------------------------|--|

12.3. Bioaccumulative potential

HIT-HY 200-A V3, B

| | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |
|---------------------------|------------------|

Quartz (SiO₂) (14808-60-7)

| | |
|---------------------------|------------------------------------|
| Bioaccumulative potential | No bioaccumulation data available. |
|---------------------------|------------------------------------|

dibenzoyl peroxide (94-36-0)

| | |
|---|--|
| Partition coefficient n-octanol/water (Log Pow) | 3.71 |
| Bioaccumulative potential | Low bioaccumulation potential (Log Kow < 4). |

HIT-HY 200-A V3, B

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

12.4. Mobility in soil

Quartz (SiO₂) (14808-60-7)

| | |
|-----------------|-------------------------------------|
| Surface tension | No data available in the literature |
| Ecology - soil | Low potential for mobility in soil. |

dibenzoyl peroxide (94-36-0)

| | |
|--|--|
| Surface tension | No data available (test not performed) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 3.8 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value) |
| Ecology - soil | Low potential for mobility in soil. |

12.5. Other adverse effects

Other information Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

| | |
|--|--|
| Regional legislation (waste) | Disposal must be done according to official regulations. |
| Product/Packaging disposal recommendations | After curing, the product can be disposed of with household waste. . Full or only partially emptied cartridges must be disposed of as special waste in accordance with official regulations. Packaging contaminated by the product : Dispose in a safe manner in accordance with local/national regulations. |
| Ecology - waste materials | Avoid release to the environment. |

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID

| ADR | IMDG | IATA | RID |
|--|---|---|---|
| Special provision(s) applied : 375 | Special provision(s) applied : 969 | Special provision(s) applied : A197 | Special provision(s) applied : 375 |
| These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. | | | |
| 14.1. UN number or ID number | | | |
| UN 3077 | UN 3077 | UN 3077 | UN 3077 |
| 14.2. UN proper shipping name | | | |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide) | Environmentally hazardous substance, solid, n.o.s. (dibenzoyl peroxide) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide) |
| Transport document description | | | |
| UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide), 9, III, (-) | UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide), 9, III | UN 3077 Environmentally hazardous substance, solid, n.o.s. (dibenzoyl peroxide), 9, III | UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide), 9, III |

HIT-HY 200-A V3, B

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| ADR | IMDG | IATA | RID |
|--|--|---------------------------------------|---------------------------------------|
| 14.3. Transport hazard class(es) | | | |
| 9 | 9 | 9 | 9 |
| | | | |
| 14.4. Packing group | | | |
| III | III | III | III |
| 14.5. Environmental hazards | | | |
| Dangerous for the environment: Yes | Dangerous for the environment: Yes Marine pollutant: Yes | Dangerous for the environment: Yes | Dangerous for the environment: Yes |
| Environmentally hazardous substances derogation applies (quantity of liquids ≤ 5 litres or net mass of solids ≤ 5 kg). The environmentally hazardous substance mark is therefore not required, as stated in the ADR regulation, section 5.2.1.8.1. | | | |
| not restricted according ADR Special Provision SP375, IATA-DGR Special Provision A197 and IMDG-Code 2.10.2.7 | | | |

14.6. Special precautions for user

Overland transport

| | |
|--------------------------------|-------------------------|
| Classification code (ADR) | M7 |
| Special provisions (ADR) | 274, 335, 375, 601 |
| Limited quantities (ADR) | 5kg |
| Packing instructions (ADR) | P002, IBC08, LP02, R001 |
| Mixed packing provisions (ADR) | MP10 |
| Transport category (ADR) | 3 |
| Orange plates | |

Tunnel restriction code (ADR) -

Transport by sea

| | |
|-----------------------------|-------------------------|
| Special provisions (IMDG) | 274, 335, 966, 967, 969 |
| Limited quantities (IMDG) | 5 kg |
| Packing instructions (IMDG) | LP02, P002 |
| EmS-No. (Fire) | F-A |
| EmS-No. (Spillage) | S-F |
| Stowage category (IMDG) | A |
| Stowage and handling (IMDG) | SW23 |
| MFAG-No | 171 |

Air transport

| | |
|---------------------------------|-----------------------------|
| PCA packing instructions (IATA) | 956 |
| PCA max net quantity (IATA) | 400kg |
| CAO packing instructions (IATA) | 956 |
| Special provisions (IATA) | A97, A158, A179, A197, A215 |

HIT-HY 200-A V3, B

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Rail transport

| | |
|----------------------------|-------------------------|
| Special provisions (RID) | 274, 335, 375, 601 |
| Limited quantities (RID) | 5kg |
| Packing instructions (RID) | P002, IBC08, LP02, R001 |

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

| | | |
|--------------------|-----------------|----------|
| dibenzoyl peroxide | CAS-No. 94-36-0 | 10 - 15% |
|--------------------|-----------------|----------|

15.2. International regulations

Quartz (SiO₂) (14808-60-7)

Listed on IARC (International Agency for Research on Cancer)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| | |
|-------------------|------------|
| Revision date | 04/13/2023 |
| Other information | None. |

Full text of H-statements

| | |
|------|--|
| H241 | Heating may cause a fire or explosion. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H350 | May cause cancer. |

Abbreviations and acronyms

| | |
|-----|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |

HIT-HY 200-A V3, B

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| Abbreviations and acronyms | |
|----------------------------|---|
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC50 | Median effective concentration |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| vPvB | Very Persistent and Very Bioaccumulative |

NFPA health hazard

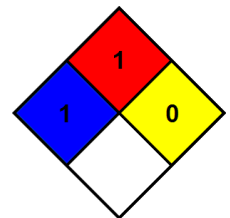
NFPA fire hazard

NFPA reactivity

1 - Materials that, under emergency conditions, can cause significant irritation.

1 - Materials that must be preheated before ignition can occur.

0 - Material that in themselves are normally stable, even under fire conditions.



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