

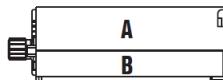
HIT-RE 10

Safety information for 2-Component-products

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.

Additional information

Component A: Epoxy resin, Reactive diluent, inorganic filler
Component B: Amine hardener, inorganic filler



| Name | General description | Quantity | Unit | Classification (GHS CA) |
|--------------|---------------------|----------|--------------|--|
| HIT-RE 10, B | | 1 | pcs (pieces) | Skin Corr. 1B, H314 Skin Sens. 1, H317 |
| HIT-RE 10, A | | 1 | pcs (pieces) | Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Repr. 1B, H360 |

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

Avoid release to the environment

Full or only partially emptied cartridges must be disposed of as special waste in accordance with official regulations.

After curing, the product can be disposed of with household waste.

Storage conditions

Protect from sunlight. Store in a well-ventilated place.

Technical measures

Comply with applicable regulations

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

Avoid contact during pregnancy/while nursing

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

On land, sweep or shovel into suitable containers

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

HIT-RE 10

Safety information for 2-Component-products

First-aid measures after eye contact

Get immediate medical advice/attention.
Immediately rinse with water for a prolonged period while holding the eyelids wide open
Remove contact lenses, if present and easy to do. Continue rinsing.
Consult an eye specialist

First-aid measures after ingestion

Do not induce vomiting
Rinse mouth
Immediately call a POISON CENTER/doctor.

First-aid measures after inhalation

Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact

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

First-aid measures general

Never give anything by mouth to an unconscious person
If you feel unwell, seek medical advice (show the label where possible)

Symptoms/effects

Causes severe skin burns and eye damage.

Symptoms/effects after eye contact

Causes serious eye damage.

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

Hazardous decomposition products in case of fire

Do not enter fire area without proper protective equipment, including respiratory protection
Thermal decomposition generates :
Carbon dioxide
Carbon monoxide

SECTION 8: Other information

No data available

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Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Issue date: 05/10/2023

Revision date: 05/10/2023

Supersedes: 06/23/2020

Version: 2.1

SECTION 1: Identification

1.1. Product identifier

| | |
|--------------|--------------|
| Product form | Mixture |
| Product name | HIT-RE 10, A |
| Product code | BU Anchor |

1.2. Recommended use and restrictions on use

| | |
|---------------------|---|
| Recommended use | Composite mortar component for fasteners in the construction industry |
| Restrictions on use | For professional use only |

1.3. Supplier

| Supplier | Department issuing data specification sheet |
|--|--|
| Hilti (Canada) Corp. | Hilti Entwicklungsgesellschaft mbH |
| 2360 Meadowpine Boulevard | Hiltistraße 6 |
| Mississauga, Ontario, L5N 6S2 | Kaufering, 86916 |
| Canada | Deutschland |
| T +1905 8139200 | T +49 8191 906876 |
| 1-800-363-4458 toll free - F +1 905 813 9009 | 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) |

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

| | | |
|---|------|---------------------------------------|
| Skin corrosion/irritation, Category 2 | H315 | Causes skin irritation. |
| Serious eye damage/eye irritation, Category 1 | H318 | Causes serious eye damage. |
| Skin sensitisation, Category 1 | H317 | May cause an allergic skin reaction. |
| Germ cell mutagenicity, Category 2 | H341 | Suspected of causing genetic defects. |
| Reproductive toxicity, Category 1 | H360 | May damage fertility.. |

Full text of H-statements: see section 16

2.2. GHS Label elements, including precautionary statements

GHS CA labelling

Hazard pictograms (GHS CA)



Signal word (GHS CA)

Danger

Hazard statements (GHS CA)

H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H341 - Suspected of causing genetic defects.
H360 - May damage fertility..

Precautionary statements (GHS CA)

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

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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.
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

No additional information available

2.4. Unknown acute toxicity (GHS CA)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Chemical name / Synonyms | Product identifier | % | Classification (GHS CA) |
|--|--|---------------------|---------|--|
| Quartz (SiO ₂) | quartz / quartz (SiO ₂) | CAS-No.: 14808-60-7 | 25 – 40 | Carc. 1A, H350 |
| 2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)bisoxirane | 2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)bisoxirane / 2,2-bis(4-(2,3-epoxypropoxy)phenyl)propane / 2,2-bis(4-glycidyloxyphenyl)propane | CAS-No.: 1675-54-3 | 25 – 40 | Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | - | CAS-No.: 9003-36-5 | 10 – 25 | Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 |
| Benzyl alcohol | benzyl alcohol | CAS-No.: 100-51-6 | 5 – 10 | Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319 |
| 1,3 Propanediol, 2 ethyl-2-(hydroxymethyl)-, polymer with 2-(chloromethyl)oxirane | - | CAS-No.: 30499-70-8 | 2.5 – 5 | Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Repr. 1B, H360 |

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

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SECTION 4: First-aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|---|
| 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 | Gently wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get immediate 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. |
| First-aid measures general | Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |

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

| | |
|---|---|
| Symptoms/effects after skin contact | Causes skin irritation. May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | Causes serious eye irritation. |
| Potential adverse human health effects and symptoms | Based on available data, the classification criteria are not met. |

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

| | |
|------------------------------|--|
| Suitable extinguishing media | Water spray. Carbon dioxide. Dry powder. Foam. Sand. |
|------------------------------|--|

5.2. Unsuitable extinguishing media

| | |
|--------------------------------|----------------------------------|
| Unsuitable extinguishing media | Do not use a heavy water stream. |
|--------------------------------|----------------------------------|

5.3. Specific hazards arising from the hazardous product

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

5.4. 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. |
|------------------|---|

6.2. Methods and materials 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. On land, sweep or shovel into suitable containers. Store away from other materials. |
| Other information | Dispose of materials or solid residues at an authorized site. |

6.3. Reference to other sections

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

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according to the Hazardous Products Regulation (February 11, 2015)

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.

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

Protect from sunlight.

Incompatible products

Strong bases. Strong acids.

Incompatible materials

Sources of ignition. Direct sunlight.

Heat and ignition sources

Keep away from heat and direct sunlight.

Storage temperature

5 – 25 °C

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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 good ventilation of the work station.

Environmental exposure controls

Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

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

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) | > 0,4 | |

Eye protection:

Wear security glasses which protect from splashes

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

Personal protective equipment symbol(s):



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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 | Light grey |
| Odour | Sweet |
| Odour threshold | No data available |
| pH | 6.3 |
| Relative evaporation rate (butylacetate=1) | No data available |
| Relative evaporation rate (ether=1) | No data available |
| Melting point | No data available |
| Freezing point | No data available |
| Boiling point | No data available |
| Flash point | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Flammability (solid, gas) | No data available |
| Vapour pressure | No data available |
| Relative vapour density at 20°C | No data available |
| Relative density | No data available |
| Density | 1.51 g/cm ³ |
| Solubility | No data available |
| Partition coefficient n-octanol/water (Log Pow) | No data available |
| Viscosity, kinematic | No data available |
| Explosive limits | No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

| | |
|------------------------------------|---|
| Reactivity | No additional information available |
| Chemical stability | Stable under normal conditions. |
| Possibility of hazardous reactions | No additional information available. |
| Conditions to avoid | Direct sunlight. Extremely high or low temperatures. |
| Incompatible materials | Strong acids. Strong bases. |
| Hazardous decomposition products | Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition generates : fume. Carbon monoxide. Carbon dioxide. |
| Hardening time: | No additional information available |

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 |

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| | |
|--|--|
| 2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3) | |
| LD50 oral rat | > 2000 mg/kg (Rat; OECD 420: Acute Oral toxicity – Acute Toxic Class Method; Experimental value) |
| LD50 oral | 11400 mg/kg |
| LD50 dermal rat | > 2000 mg/kg (Rat; Experimental value; OECD 402: Acute Dermal Toxicity) |
| Benzyl alcohol (100-51-6) | |
| LD50 oral rat | 1620 mg/kg |
| LC50 Inhalation - Rat | > 4178 mg/m ³ |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (9003-36-5) | |
| LD50 oral rat | > 5000 mg/kg bodyweight (Rat; ECHA) |
| LD50 dermal rat | > 2000 mg/kg bodyweight (Rat; ECHA) |
| Skin corrosion/irritation | Causes skin irritation. pH: 6.3 |
| Serious eye damage/irritation | Causes serious eye damage. pH: 6.3 |
| Respiratory or skin sensitization | May cause an allergic skin reaction. |
| Germ cell mutagenicity | Suspected of causing genetic defects. |
| Carcinogenicity | Not classified |
| Quartz (SiO ₂) (14808-60-7) | |
| IARC group | 1 - Carcinogenic to humans |
| National Toxicology Program (NTP) Status | Known Human Carcinogens |
| 2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3) | |
| IARC group | 3 - Not classifiable |
| Reproductive toxicity | May damage fertility.. |
| STOT-single exposure | Not classified |
| STOT-repeated exposure | Not classified |
| Aspiration hazard | Not classified |
| Potential adverse human health effects and symptoms | Based on available data, the classification criteria are not met. |
| Symptoms/effects after skin contact | Causes skin irritation. May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | Causes serious eye irritation. |

SECTION 12: Ecological information

12.1. Toxicity

| | |
|---|--|
| Ecology - water | Toxic to aquatic life with long lasting effects. |
| Hazardous to the aquatic environment, short-term (acute) | Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | Not classified |

| | |
|--|---|
| 2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3) | |
| LC50 - Fish [1] | 1.2 mg/l (96 h; <i>Oncorhynchus mykiss</i> ; Lethal) |
| LC50 - Fish [2] | 2.3 mg/l (96 h; <i>Oncorhynchus mykiss</i> ; Nominal concentration) |

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| 2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3) | |
|--|--|
| EC50 - Crustacea [1] | 2 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Nominal concentration) |
| EC50 72h - Algae [1] | 9.4 mg/l (EPA 660/3 - 75/009, Selenastrum capricornutum, Static system, Fresh water, Experimental value, Biomass) |
| Threshold limit - Algae [1] | > 11 mg/l (72 h; Scenedesmus sp.) |
| Threshold limit - Algae [2] | 4.2 mg/l (72 h; Scenedesmus sp.) |

12.2. Persistence and degradability

| HIT-RE 10, A | |
|---|---|
| Persistence and degradability | May cause long-term adverse effects in the environment. |
| Quartz (SiO ₂) (14808-60-7) | |
| Not rapidly degradable | |
| Persistence and degradability | Biodegradability: not applicable. |
| Chemical oxygen demand (COD) | Not applicable (inorganic) |
| ThOD | Not applicable (inorganic) |

12.3. Bioaccumulative potential

| HIT-RE 10, A | |
|--|---|
| Bioaccumulative potential | Not established. |
| Quartz (SiO ₂) (14808-60-7) | |
| Bioaccumulative potential | No bioaccumulation data available. |
| 2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3) | |
| Bioaccumulative potential | Low bioaccumulation potential (BCF < 500). |
| Partition coefficient n-octanol/water (Log Pow) | ≥ 2.918 (Experimental value; EU Method A.8: Partition Coefficient; 25 °C) |

12.4. Mobility in soil

| Quartz (SiO ₂) (14808-60-7) | |
|--|---|
| Surface tension | No data available in the literature |
| Ecology - soil | Low potential for mobility in soil. |
| 2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3) | |
| Surface tension | 59 mN/m (20 °C, 0.09 g/l) |
| Ecology - soil | No (test)data on mobility of the substance available. |

12.5. Other adverse effects

| | |
|-------------------|-----------------------------------|
| Ozone | Not classified |
| Other information | Avoid release to the environment. |

HIT-RE 10, A

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional legislation (waste)

Product/Packaging disposal recommendations

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.

Ecology - waste materials

Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID

| ADR | IMDG | IATA | RID |
|---|---|--|---|
| 14.1. UN number | | | |
| UN 1759 | UN 1759 | UN 1759 | UN 1759 |
| 14.2. UN proper shipping name | | | |
| CORROSIVE SOLID, N.O.S. (trimethylolpropane triglycidylether) | CORROSIVE SOLID, N.O.S. (trimethylolpropane triglycidylether) | Corrosive solid, n.o.s. (trimethylolpropane triglycidylether) | CORROSIVE SOLID, N.O.S. (trimethylolpropane triglycidylether) |
| Transport document description | | | |
| UN 1759 CORROSIVE SOLID, N.O.S. (trimethylolpropane triglycidylether), 8, III, (E), ENVIRONMENTALLY HAZARDOUS | UN 1759 CORROSIVE SOLID, N.O.S. (trimethylolpropane triglycidylether), 8, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS | UN 1759 Corrosive solid, n.o.s. (trimethylolpropane triglycidylether), 8, III, ENVIRONMENTALLY HAZARDOUS | UN 1759 CORROSIVE SOLID, N.O.S. (trimethylolpropane triglycidylether), 8, III, ENVIRONMENTALLY HAZARDOUS |
| 14.3. Transport hazard class(es) | | | |
| 8 | 8 | 8 | 8 |
|   |   |   |   |
| 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 |
| No supplementary information available | | | |

14.6. Special precautions for user

Overland transport

Classification code (ADR)

C10

Special provisions (ADR)

274

Limited quantities (ADR)

5kg

Packing instructions (ADR)

P002, IBC08, LP02, R001

Mixed packing provisions (ADR)

MP10

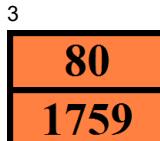
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Transport category (ADR)

Orange plates



Tunnel restriction code (ADR)

E

Transport by sea

| | |
|-----------------------------|------------|
| Special provisions (IMDG) | 223, 274 |
| Packing instructions (IMDG) | P002, LP02 |
| EmS-No. (Fire) | F-A |
| EmS-No. (Spillage) | S-B |
| Stowage category (IMDG) | A |

Air transport

| | |
|---------------------------------|----------|
| PCA packing instructions (IATA) | 860 |
| PCA max net quantity (IATA) | 25kg |
| CAO packing instructions (IATA) | 864 |
| Special provisions (IATA) | A3, A803 |

Rail transport

| | |
|----------------------------|-------------------------|
| Special provisions (RID) | 274 |
| Packing instructions (RID) | P002, IBC08, LP02, R001 |

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

Not applicable

SECTION 15: Regulatory information

15.1. National regulations

| | |
|-----------------------|---|
| HIT-RE 10, A | |
| Canada DSL NDSL Flags | All components of this product are listed, or excluded from listing, on the Canadian Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL) |

Quartz (SiO₂) (14808-60-7)

Listed on the Canadian DSL (Domestic Substances List)

2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3)

Listed on the Canadian DSL (Domestic Substances List)

Benzyl alcohol (100-51-6)

Listed on the Canadian DSL (Domestic Substances List)

1,3 Propanediol, 2 ethyl-2-(hydroxymethyl)-, polymer with 2-(chloromethyl)oxirane (30499-70-8)

Listed on the Canadian DSL (Domestic Substances List)



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Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (9003-36-5)

Listed on the Canadian DSL (Domestic Substances List)

SECTION 16: Other information

| | |
|-----------------|------------|
| SDS Major/Minor | None |
| Issue date | 05-10-2023 |
| Revision date | 05-10-2023 |
| Supersedes | 06-23-2020 |

Full text of H-statements:

| | |
|------|---|
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H341 | Suspected of causing genetic defects. |
| H350 | May cause cancer. |
| H360 | May damage fertility or the unborn child. |

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 |
| DNEL | Derived-No Effect Level |
| DMEL | Derived Minimal 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 |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |



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| Abbreviations and acronyms: | |
|-----------------------------|---|
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| OECD | Organisation for Economic Co-operation and Development |
| PNEC | Predicted No-Effect Concentration |
| PBT | Persistent Bioaccumulative Toxic |
| vPvB | Very Persistent and Very Bioaccumulative |
| SDS | Safety Data Sheet |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| LD50 | Median lethal dose |

SDS_CA_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-RE 10, B

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Issue date: 05/10/2023

Revision date: 05/10/2023

Supersedes: 06/23/2020

Version: 1.3

SECTION 1: Identification

1.1. Product identifier

| | |
|--------------|--------------|
| Product form | Mixture |
| Product name | HIT-RE 10, B |
| Product code | BU Anchor |

1.2. Recommended use and restrictions on use

| | |
|---------------------|---|
| Recommended use | Composite mortar component for fasteners in the construction industry |
| Restrictions on use | For professional use only |

1.3. Supplier

| Supplier | Department issuing data specification sheet |
|--|--|
| Hilti (Canada) Corp. | Hilti Entwicklungsgesellschaft mbH |
| 2360 Meadowpine Boulevard | Hiltistraße 6 |
| Mississauga, Ontario, L5N 6S2 | Kaufering, 86916 |
| Canada | Deutschland |
| T +1905 8139200 | T +49 8191 906876 |
| 1-800-363-4458 toll free - F +1 905 813 9009 | 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) |

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

| | | |
|---|------|--|
| Skin corrosion/irritation, Category 1B | H314 | Causes severe skin burns and eye damage. |
| 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 CA labelling

Hazard pictograms (GHS CA)



Signal word (GHS CA)

Danger

Hazard statements (GHS CA)

H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

Precautionary statements (GHS CA)

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.

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.

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2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS CA)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Chemical name / Synonyms | Product identifier | % | Classification (GHS CA) |
|---|-------------------------------------|----------------------|---------|---|
| Quartz (SiO ₂) | quartz / quartz (SiO ₂) | CAS-No.: 14808-60-7 | 60 – 80 | Carc. 1A, H350 |
| m-Xylylenediamine | - | CAS-No.: 1477-55-0 | 10 - 25 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 |
| Formaldehyde, telomer with 1,3-benzenedimethanamine, 1,3-benzenediol and ethenylbenzene | - | CAS-No.: 710292-85-6 | 10 - 25 | Skin Sens. 1B, 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 after inhalation

Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact

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

First-aid measures after eye contact

Get immediate medical advice/attention. Immediately rinse with water for a prolonged period while holding the eyelids wide open. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist.

First-aid measures after ingestion

Do not induce vomiting. Rinse mouth. Immediately call a POISON CENTER/doctor.

First-aid measures general

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

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

Symptoms/effects

Causes severe skin burns and eye damage.

Symptoms/effects after skin contact

May cause an allergic skin reaction.

Symptoms/effects after eye contact

Causes serious eye damage.

Potential adverse human health effects and symptoms

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

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

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SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media Foam. Dry powder. Carbon dioxide. Water spray. Sand.

5.2. Unsuitable extinguishing media

Unsuitable extinguishing media Do not use a heavy water stream.

5.3. Specific hazards arising from the hazardous product

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

5.4. 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.

6.2. Methods and materials 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. On land, sweep or shovel into suitable containers. Store away from other materials.

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

6.3. Reference to other sections

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

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. Avoid contact during pregnancy/while nursing.

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

Technical measures Comply with applicable regulations.

Storage conditions Protect from sunlight. Store in a well-ventilated place.

Incompatible products Strong bases. Strong acids.

Incompatible materials Sources of ignition. Direct sunlight.

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

Storage temperature 5 – 25 °C

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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 good ventilation of the work station.

Environmental exposure controls

Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

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

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) | > 0,4 | |

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 | Black |
| Odour | Amine-like |
| Odour threshold | No data available |
| pH | 11.5 |
| Relative evaporation rate (butylacetate=1) | No data available |
| Relative evaporation rate (ether=1) | No data available |
| Melting point | No data available |
| Freezing point | No data available |
| Boiling point | No data available |

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| | |
|---|------------------------|
| Flash point | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Flammability (solid, gas) | No data available |
| Vapour pressure | No data available |
| Relative vapour density at 20°C | No data available |
| Relative density | No data available |
| Density | 1.75 g/cm ³ |
| Solubility | insoluble in water. |
| Partition coefficient n-octanol/water (Log Pow) | No data available |
| Viscosity, kinematic | No data available |
| Viscosity, dynamic | 150 – 185 Pa·s 25 °C |
| Explosive limits | No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

| | |
|------------------------------------|---|
| Reactivity | Corrosive vapours. |
| Chemical stability | Stable under normal conditions. |
| Possibility of hazardous reactions | No additional information available. |
| Conditions to avoid | Direct sunlight. Extremely high or low temperatures. |
| Incompatible materials | Strong acids. Strong bases. |
| Hazardous decomposition products | Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition generates : fume. Carbon monoxide. Carbon dioxide. |
| Hardening time: | Corrosive vapours. No additional information available |

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 |

Formaldehyde, telomer with 1,3-benzenedimethanamine, 1,3-benzenediol and ethenylbenzene (710292-85-6)

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

m-Xylylenediamine (1477-55-0)

| | |
|-----------------------------------|--------------|
| LD50 oral rat | 1090 mg/kg |
| LD50 dermal rat | > 3100 mg/kg |
| LD50 dermal | > 3100 mg/kg |
| LC50 Inhalation - Rat (Dust/Mist) | 1.34 mg/l/4h |

Skin corrosion/irritation

Causes severe skin burns.

pH: 11.5

Serious eye damage/irritation

Assumed to cause serious eye damage

pH: 11.5

Respiratory or skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

Not classified

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| | |
|---|---|
| Carcinogenicity | |
| Not classified | |
| Quartz (SiO ₂) (14808-60-7) | |
| IARC group | 1 - Carcinogenic to humans |
| 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 |
| Potential adverse human health effects and symptoms | Based on available data, the classification criteria are not met. |
| Symptoms/effects | Causes severe skin burns and eye damage. |
| Symptoms/effects after skin contact | May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | Causes serious eye damage. |

SECTION 12: Ecological information

12.1. Toxicity

| | |
|---|--|
| Ecology - water | Harmful to aquatic life with long lasting effects. |
| Hazardous to the aquatic environment, short-term (acute) | Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | Not classified |

| | |
|---|-------------|
| Formaldehyde, telomer with 1,3-benzenedimethanamine, 1,3-benzenediol and ethenylbenzene (710292-85-6) | |
| LC50 - Fish [1] | ≥ 50 mg/l |
| LC50 - Other aquatic organisms [1] | ≥ 31.8 mg/l |
| EC50 - Crustacea [1] | 2.4 mg/l |
| NOEC chronic algae | 6.25 mg/l |

| | |
|------------------------------------|------------|
| m-Xylylenediamine (1477-55-0) | |
| LC50 - Fish [1] | 75 mg/l |
| LC50 - Other aquatic organisms [1] | 20.3 ppb |
| EC50 - Crustacea [1] | 15 mg/l |
| NOEC (chronic) | 4.7 mg/l |
| NOEC chronic crustacea | 4.7 mg/l |
| NOEC (acute) | 10.5 mg/kg |
| LOEC (chronic) | 15 mg/l |

12.2. Persistence and degradability

| | |
|---|---|
| HIT-RE 10, B | |
| Persistence and degradability | May cause long-term adverse effects in the environment. |
| Quartz (SiO ₂) (14808-60-7) | |
| Not rapidly degradable | |
| Persistence and degradability | Biodegradability: not applicable. |



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Quartz (SiO₂) (14808-60-7)

| | |
|------------------------------|----------------------------|
| Chemical oxygen demand (COD) | Not applicable (inorganic) |
| ThOD | Not applicable (inorganic) |

12.3. Bioaccumulative potential

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

Formaldehyde, telomer with 1,3-benzenedimethanamine, 1,3-benzenediol and ethenylbenzene (710292-85-6)

| | |
|-------------------------------------|--------|
| Bioconcentration factor (BCF REACH) | ≥ 12.9 |
|-------------------------------------|--------|

| | |
|---|------|
| Partition coefficient n-octanol/water (Log Pow) | 5.14 |
|---|------|

Quartz (SiO₂) (14808-60-7)

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

12.4. Mobility in soil

Formaldehyde, telomer with 1,3-benzenedimethanamine, 1,3-benzenediol and ethenylbenzene (710292-85-6)

Quartz (SiO₂) (14808-60-7)

| | |
|-----------------|-------------------------------------|
| Surface tension | No data available in the literature |
|-----------------|-------------------------------------|

| | |
|----------------|-------------------------------------|
| Ecology - soil | Low potential for mobility in soil. |
|----------------|-------------------------------------|

12.5. Other adverse effects

Ozone

Not classified

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 |
|-------------------------------------|-------------------------------------|----------------------------------|-------------------------------------|
| 14.1. UN number | | | |
| UN 3259 | UN 3259 | UN 3259 | UN 3259 |
| 14.2. UN proper shipping name | | | |
| AMINES, SOLID, CORROSIVE, N.O.S. | AMINES, SOLID, CORROSIVE, N.O.S. | Amines, solid, corrosive, n.o.s. | AMINES, SOLID, CORROSIVE, N.O.S. |

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| ADR | IMDG | IATA | RID |
|---|---|---|---|
| Transport document description | | | |
| UN 3259 AMINES, SOLID, CORROSIVE, N.O.S., 8, II, (E) | UN 3259 AMINES, SOLID, CORROSIVE, N.O.S., 8, II | UN 3259 Amines, solid, corrosive, n.o.s., 8, II | UN 3259 AMINES, SOLID, CORROSIVE, N.O.S., 8, II |
| 14.3. Transport hazard class(es) | | | |
| 8 | 8 | 8 | 8 |
| | | | |
| 14.4. Packing group | | | |
| II | II | II | II |
| 14.5. Environmental hazards | | | |
| Dangerous for the environment: No Marine pollutant: No | Dangerous for the environment: No | Dangerous for the environment: No | Dangerous for the environment: No |
| No supplementary information available | | | |

14.6. Special precautions for user

Overland transport

| | |
|--------------------------------|-------------|
| Classification code (ADR) | C8 |
| Special provisions (ADR) | 274 |
| Limited quantities (ADR) | 1kg |
| Packing instructions (ADR) | P002, IBC08 |
| Mixed packing provisions (ADR) | MP10 |
| Transport category (ADR) | 2 |
| Orange plates | |

| | |
|-------------------------------|---|
| Tunnel restriction code (ADR) | E |
|-------------------------------|---|

Transport by sea

| | |
|-----------------------------|------|
| Special provisions (IMDG) | 274 |
| Limited quantities (IMDG) | 1 kg |
| Packing instructions (IMDG) | P002 |
| EmS-No. (Fire) | F-A |
| EmS-No. (Spillage) | S-B |
| Stowage category (IMDG) | A |
| MFAG-No | 154 |

Air transport

| | |
|---------------------------------|------|
| PCA packing instructions (IATA) | 859 |
| PCA max net quantity (IATA) | 15kg |
| CAO packing instructions (IATA) | 863 |
| Special provisions (IATA) | A3 |

Rail transport

| | |
|--------------------------|-----|
| Special provisions (RID) | 274 |
|--------------------------|-----|



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| | |
|----------------------------|-------------|
| Limited quantities (RID) | 1kg |
| Packing instructions (RID) | P002, IBC08 |

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

Not applicable

SECTION 15: Regulatory information

15.1. National regulations

| | |
|-----------------------|---|
| HIT-RE 10, B | |
| Canada DSL NDSL Flags | All components of this product are listed, or excluded from listing, on the Canadian Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL) |

Formaldehyde, telomer with 1,3-benzenedimethanamine, 1,3-benzenediol and ethenylbenzene (710292-85-6)

Listed on the Canadian DSL (Domestic Substances List)

| | |
|-----------------------|---|
| Canada DSL NDSL Flags | Substance was manufactured or imported after July 1, 1994 |
|-----------------------|---|

m-Xylylenediamine (1477-55-0)

Listed on the Canadian DSL (Domestic Substances List)

Quartz (SiO2) (14808-60-7)

Listed on the Canadian DSL (Domestic Substances List)

SECTION 16: Other information

| | |
|-----------------|------------|
| SDS Major/Minor | None |
| Issue date | 05-10-2023 |
| Revision date | 05-10-2023 |
| Supersedes | 06-23-2020 |

| | |
|----------------------------|--|
| Full text of H-statements: | |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H332 | Harmful if inhaled. |
| H350 | May cause cancer. |
| H412 | Harmful to aquatic life with long lasting effects. |

| | |
|-----------------------------|---|
| 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 |

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| Abbreviations and acronyms: | |
|-----------------------------|---|
| 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 |
| 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 |

SDS_CA_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.