



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.11.2018

Version number 4

Revision: 10.08.2018

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

- **1.1 Product identifier**
- **Trade name:** *helmitin® 14030*
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Product category** PC1 Adhesives, sealants
- **Application of the substance / the mixture** Adhesives
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
*H.B. Fuller, Isar-Rakoll, S.A.
 Estrada Nacional 13
 PT-4486-851 Mindelo - Vila do Conde
 +351 229 288 200
 EU-MSDS@hbfuller.com*
- **Informing department:** Regulatory department
- **1.4 Emergency telephone number:**
*NCEC emergency service
 +44 (0) 1235 239 670 (24 hours)*

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**

| | | |
|-------------------|-----------|--|
| Skin Irrit. 2 | H315 | Causes skin irritation. |
| Eye Irrit. 2 | H319 | Causes serious eye irritation. |
| Carc. 2 | H351 | Suspected of causing cancer. |
| STOT SE 3 | H335-H336 | May cause respiratory irritation. May cause drowsiness or dizziness. |
| STOT RE 2 | H373 | May cause damage to organs through prolonged or repeated exposure. |
| Aquatic Chronic 2 | H411 | Toxic to aquatic life with long lasting effects. |

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS07 GHS08 GHS09

- **Signal word** Warning
- **Hazard-determining components of labelling:**
*dichloromethane
 tetrachloroethylene*
- **Hazard statements**

| | |
|-----------|--|
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H351 | Suspected of causing cancer. |
| H335-H336 | May cause respiratory irritation. May cause drowsiness or dizziness. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
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Precautionary statements

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards**Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures**Description:**

Adhesive.
 Polychloroprene

Dangerous components:

| | | |
|---|--|---------|
| CAS: 75-09-2 EINECS: 200-838-9 Reg.nr.: 01-2119480404-41-xxxx | dichloromethane ----- Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335- H336 | 50-100% |
| CAS: 127-18-4 EINECS: 204-825-9 Reg.nr.: 01-2119475329-28-0000 | tetrachloroethylene ----- Carc. 2, H351; Aquatic Chronic 2, H411 | 25-50% |
| CAS: 8050-09-7 EINECS: 232-475-7 Reg.nr.: 01-2119480418-32-0000 | Rosin ----- Skin Sens. 1, H317 | <0.5% |

- **Additional information** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures**General information**

Instantly remove any clothing soiled by the product.

Take affected persons into the open air.

- **After inhalation** Supply fresh air; consult doctor in case of symptoms.

After skin contact

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

- **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.

- **After swallowing** Do not induce vomiting; instantly call for medical help.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
Use fire fighting measures that suit the environment.
Water haze
Foam
Fire-extinguishing powder
Carbon dioxide
- **5.2 Special hazards arising from the substance or mixture**
Can be released in case of fire
Carbon monoxide and carbon dioxide
- **5.3 Advice for firefighters**
- **Protective equipment:** Do not inhale explosion gases or combustion gases.
- **Additional information**
Collect contaminated fire fighting water separately. It must not enter drains.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Wear protective clothing.
- **6.2 Environmental precautions:**
Do not allow to enter drainage system, surface or ground water.
Inform respective authorities in case product reaches water or sewage system.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
Send for recovery or disposal in suitable containers.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Store in cool, dry place in tightly closed containers.
Ensure good ventilation/exhaustion at the workplace.
Take note of emission threshold.
Use solvent-proof equipment.
Keep out of the reach of children.
- **Information about protection against explosions and fires:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** Prevent any penetration into the ground.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**
Protect from heat and direct sunlight.
Store in cool, dry conditions in original sealed container

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- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **8.1 Control parameters**

- **Components with limit values that require monitoring at the workplace:**

127-18-4 tetrachloroethylene

| | |
|-----|--|
| WEL | Short-term value: 689 mg/m ³ , 100 ppm Long-term value: 345 mg/m ³ , 50 ppm |
|-----|--|

8050-09-7 Rosin

| | |
|-----|--|
| WEL | Short-term value: 0.15 mg/m ³ Long-term value: 0.05 mg/m ³ Sen |
|-----|--|

- **Ingredients with biological limit values:**

75-09-2 dichloromethane

| | |
|------|---|
| BMGV | 30 ppm Medium: end-tidal breath Sampling time: post shift Parameter: carbon monoxide |
|------|---|

- **Additional information:** The lists that were valid during the compilation were used as basis.

- **8.2 Exposure controls**

- **Personal protective equipment**

- **General protective and hygienic measures**

The usual precautionary measures should be adhered to general rules for handling chemicals.

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

- **Breathing equipment:** Use breathing protection in case of insufficient ventilation.

- **Recommended filter device for short term use:** Combination filter A-P2

- **Protection of hands:**



Protective gloves.

Solvent resistant gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

Recommended thickness of the material: ≥ 7 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· **Eye protection:**

Tightly sealed safety glasses.

· **Body protection:** Protective work clothing.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**· **General Information**· **Appearance:**

| | |
|---------------------------|-----------------|
| · Form: | Fluid |
| · Colour: | Black |
| · Odour: | Characteristic |
| · Odour threshold: | Not determined. |

· **pH-value:** Not determined.· **Change in condition**

| | |
|---|-------------------|
| · Melting point/freezing point: | Not determined |
| · Initial boiling point and boiling range: | 40 °C (DIN 53171) |

· **Flash point:** Not applicable· **Inflammability (solid, gaseous)** Not applicable.· **Decomposition temperature:** Not determined.· **Self-inflammability:** Product is not selfigniting.· **Explosive properties:** Product is not explosive.· **Critical values for explosion:**

| | |
|-----------------|----------------------|
| · Lower: | 13.0 Vol % (EN 1839) |
| · Upper: | 22.0 Vol % (EN 1839) |

· **Vapour pressure at 20 °C:** 453 hPa (DIN 51640)· **Density at 20 °C** 1.45 g/cm³ (DIN 51757)· **Relative density** Not determined.· **Vapour density** Not determined.· **Evaporation rate** Not determined.· **Solubility in / Miscibility with**· **Water:** Not miscible or difficult to mix· **Partition coefficient: n-octanol/water:** Not determined.· **Viscosity:**

| | |
|----------------------------|-----------------------------------|
| · dynamic at 20 °C: | 3700 mPas (Brookfield (ISO 2555)) |
| · kinematic: | Not determined. |

· **Solvent content:**· **Organic solvents:** 86.9 %· **Solids content:** 13.0 % (ISO 3251)

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· **9.2 Other information**

No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values that are relevant for classification:**

75-09-2 dichloromethane

| | | |
|------------|--------------|-------------------|
| Oral | LD50 | 2000 mg/kg (rat) |
| | LDLo | 357 mg/kg (Human) |
| Dermal | LD50 | >2000 mg/kg (rat) |
| Inhalative | LC50/30 min. | 88 mg/l (rat) |

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity**
Suspected of causing cancer.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**
May cause respiratory irritation. May cause drowsiness or dizziness.
- **STOT-repeated exposure**
May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

75-09-2 dichloromethane

| | |
|----------|---|
| LC50/96h | 220 mg/l (<i>Lepomis macrochirus</i>) |
| | 310 mg/l (<i>Pimephales promelas</i>) |

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| | |
|----------|--|
| IC50/96h | > 660 mg/l (Selenastrum capricornutum) |
| EC50/48h | 1682 mg/l (Daphnia magna) |

· **12.2 Persistence and degradability**

75-09-2 dichloromethane

Bio.Abbaubark./28 d | 5 - 26 % (-)

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· **Ecotoxicological effects:**

· **Remark:** Toxic for fish

· **Additional ecological information:**

· **General notes:**

Water danger class 3 (German Regulation) (Self-assessment): extremely hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into soil.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Must be specially treated under adherence to official regulations.

· **European waste catalogue**

| | |
|----------|---|
| 08 00 00 | WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS |
|----------|---|

| | |
|----------|---|
| 08 04 00 | wastes from MFSU of adhesives and sealants (including waterproofing products) |
|----------|---|

| | |
|-----------|--|
| 08 04 09* | waste adhesives and sealants containing organic solvents or other hazardous substances |
|-----------|--|

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR, IMDG, IATA**

UN2810

· **14.2 UN proper shipping name**

· **ADR**

2810 TOXIC LIQUID, ORGANIC, N.O.S.
(DICHLOROMETHANE,
TETRACHLOROETHYLENE),
ENVIRONMENTALLY HAZARDOUS

· **IMDG**

TOXIC LIQUID, ORGANIC, N.O.S.
(DICHLOROMETHANE,
TETRACHLOROETHYLENE), MARINE

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| | |
|--|---|
| · · IATA | POLLUTANT TOXIC LIQUID, ORGANIC, N.O.S. (DICHLOROMETHANE, TETRACHLOROETHYLENE) |
| · 14.3 Transport hazard class(es) · ADR, IMDG | |
|  | |
| · Class · Label | 6.1 Toxic substances. 6.1 |
| · IATA | |
|  | |
| · Class · Label | 6.1 Toxic substances. 6.1 |
| · 14.4 Packing group · ADR, IMDG, IATA | III |
| · 14.5 Environmental hazards: · Marine pollutant: · Special marking (ADR): | Product contains environmentally hazardous substances: tetrachloroethylene Yes Symbol (fish and tree) Symbol (fish and tree) |
| · 14.6 Special precautions for user · Kemler Number: · EMS Number: · Segregation groups · Stowage Category · Stowage Code | Warning: Toxic substances. 60 F-A,S-A Liquid halogenated hydrocarbons A SW2 Clear of living quarters. |
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| · Transport/Additional information: | |
| · ADR · Limited quantities (LQ) · Excepted quantities (EQ) | 5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml |
| · Transport category · Tunnel restriction code | 2 E |
| · IMDG · Limited quantities (LQ) | 5L |

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- | | |
|---|--|
| <ul style="list-style-type: none"> · Excepted quantities (EQ) | Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml |
| <ul style="list-style-type: none"> · UN "Model Regulation": | UN 2810 TOXIC LIQUID, ORGANIC, N.O.S. (DICHLOROMETHANE, TETRACHLOROETHYLENE), 6.1, III, ENVIRONMENTALLY HAZARDOUS |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 59
- **National regulations**
- **Technical instructions (air):**

| Class | Share in % |
|-------|------------|
| I | 50-100 |

- **Water hazard class:** Water danger class 3 (Self-assessment): extremely hazardous for water.
- **VOC (EU) %** 86.90 %
- **Code MAL** 5-6
- **VOC (EU)** 1,260.1 g/l
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H351 Suspected of causing cancer.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.

- **Contact:** EU-MSDS@hbfuller.com

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

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*LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**Acute Tox. 4: Acute toxicity – Category 4**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Irrit. 2: Serious eye damage/eye irritation – Category 2**Skin Sens. 1: Skin sensitisation – Category 1**Carc. 2: Carcinogenicity – Category 2**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3**STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2**Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2**** Data compared to the previous version altered.**

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Annex: Exposure scenario

- **Short title of the exposure scenario**
tetrachloroethylene (CAS 127-18-4)
Industrial Use in rigid foams, coatings adhesives and sealants
- **Sector of Use** SU3 *Industrial uses: Uses of substances as such or in preparations at industrial sites*
- **Product category** PC1 *Adhesives, sealants*
- **Process category**
PROC1 *Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.*
PROC2 *Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions*
PROC3 *Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition*
PROC4 *Chemical production where opportunity for exposure arises*
PROC5 *Mixing or blending in batch processes*
PROC8a *Transfer of substance or mixture (charging and discharging) at non-dedicated facilities*
PROC8b *Transfer of substance or mixture (charging and discharging) at dedicated facilities*
PROC15 *Use as laboratory reagent*
- **Environmental release category**
ERC2 *Formulation into mixture*
ERC4 *Use of non-reactive processing aid at industrial site (no inclusion into or onto article)*
- **Description of the activities / processes covered in the Exposure Scenario**
See section 1 of the annex to the Safety Data Sheet.
- **Conditions of use** *Customary application according to section 1.*
- **Duration and frequency** *5 workdays/week.*
- **Physical parameters**
The data on the physical - chemical properties in the Exposure Scenario is based on the properties of the preparation.
- **Physical state** *Fluid*
- **Concentration of the substance in the mixture** *Raw material.*
- **Other operational conditions** *Observe the normal safety regulations when handling chemicals*
- **Other operational conditions affecting environmental exposure** *Use only on hard ground.*
- **Other operational conditions affecting consumer exposure** *Keep out of the reach of children.*
- **Other operational conditions affecting consumer exposure during the use of the product**
Not applicable.
- **Risk management measures**
- **Worker protection**
The usual precautionary measures should be adhered to general rules for handling chemicals.
Keep away from foodstuffs, beverages and food.
Wash hands during breaks and at the end of the work.
Do not inhale gases / fumes / aerosols.
Use breathing protection in case of insufficient ventilation.
- **Organisational protective measures** *No special measures required.*
- **Technical protective measures**
Use product only in enclosed systems.
Ensure that suitable extractors are available on processing machines
- **Personal protective measures** *Do not inhale gases / fumes / aerosols.*
- **Measures for consumer protection**
Ensure adequate labelling.
Keep locked up and out of the reach of children.
- **Environmental protection measures**
- **Water** *Do not allow to reach sewage system.*
- **Soil** *Prevent contamination of soil.*

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- **Disposal measures** Ensure that waste is collected and contained.
- **Disposal procedures**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Waste type** Partially emptied and uncleaned packaging
- **Exposure estimation**
- **Consumer** Not relevant for this Exposure Scenario.

GB