



Safety Data Sheet acc. to OSHA HCS

Printing date 05/01/2015

Reviewed on 05/01/2015

* 1: Identification

- **1.1 Product identifier**
- **Trade name:** Penetrant HM-430
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture**
NDT Inspection penetrant "Type 1 Methods "A" per AMS-2644/ ASTM E-1417
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Sherwin Incorporated
5530 Borwick Ave
South Gate, CA 90280
Phone: (562) 861-6324
Fax: (562) 923-8370
<https://www.sherwininc.com/>
- **Information department:** Product safety department
- **1.4 Emergency telephone number:** Chemtrec +1-800-424-9300 in U.S.A.; outside U.S.A. 001-703-527-3887

2: Hazard(s) identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
Eye Dam. 1 H318 Causes serious eye damage.
Skin Irrit. 2 H315 Causes skin irritation.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labeled according to the CLP regulation.
- **Hazard pictograms**



GHS05 GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**
Secondary alcohol ethoxylates (3)
Distillates (petroleum), hydrotreated light
Secondary alcohol ethoxylates (2)
- **Hazard statements**
H315 Causes skin irritation.
H318 Causes serious eye damage.
H304 May be fatal if swallowed and enters airways.
- **Precautionary statements**
 - P280 Wear protective gloves.
 - P301+P310 If swallowed: Immediately call a doctor.
 - P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - P302+P352+P312 If on skin: Wash with plenty of soap and water. Call a POISON CENTER or doctor/physician if you feel unwell.
 - P321 Specific treatment (see on this label).
 - P405 Store locked up.



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P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 2
Fire = 1
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 2

Fire = 1

Reactivity = 0

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3: Composition/information on ingredients

· **3.2 Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

| | | |
|--|--|--------|
| CAS: 64742-47-8 EINECS: 265-149-8 CAS 64742-52-5 | Distillates (petroleum), hydrotreated light Distillates (petroleum), hydrotreated heavy | 25-50% |
| CAS: 68131-40-8 | Secondary alcohol ethoxylates (3) | 20-40% |

· **Most important ingredients**

| | | |
|--|--|--------|
| CAS: 64742-47-8 EINECS: 265-149-8 CAS 64742-52-5 | Distillates (petroleum), hydrotreated light Distillates (petroleum), hydrotreated heavy | 25-50% |
| CAS: 68131-40-8 | Secondary alcohol ethoxylates (3) (2) | 20-40% |

4: First-aid measures

· **4.1 Description of first aid measures**

· **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

Take affected persons into fresh air and keep quiet.

· **After skin contact:**

Immediately 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 a doctor.

· **After swallowing:**

Do not induce vomiting; immediately call for medical help.

A person vomiting while lying on their back should be turned onto their side.

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- **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.

5: Fire-fighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
Water haze
Foam
ABC powder
- **For safety reasons unsuitable extinguishing agents:** Water spray
- **5.2 Special hazards arising from the substance or mixture** Carbon monoxide and carbon dioxide
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.

6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
- **6.2 Environmental precautions:**
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Collect liquid in an appropriate container or absorb with an inert material such as vermiculite, dry sand, or earth;
DO NOT use combustible materials.
Place in a chemical waste container.
- **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 disposal information.

7: Handling and storage

- **7.1 Precautions for safe handling** Prevent formation of aerosols.
- **Information about protective measures:**
Put on appropriate personal protective equipment (see Section 8). Do not ingest.
Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep tightly closed when not in use. Containers may be hazardous when empty since residue liquid and vapors may be present
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.

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

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:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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

- **8.2 Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:** Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

- **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.



Ventilation System: A system of local or general exhaust is recommended to keep employee exposure below the airborne exposure limits. If exposure limit is exceeded use organic vapor respirator (type A), or self contained breathing apparatus.

- **Protection of hands:**



The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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

- **Material of gloves**

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 cannot 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.

- **Eye protection:**



Safety glasses

Tightly sealed goggles

- **Body protection:** Personal protective equipment for the body should be selected based on the task being performed and the risks involved. Use protective suit.

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* 9: Physical and chemical properties

| |
|--|
| · 9.1 Information on basic physical and chemical properties |
| · General Information |
| · Appearance: |
| Form: Liquid |
| Color: Yellow fluorescent |
| · Odor: Characteristic |
| · Odor threshold: Not determined. |
| · pH-value: Not determined. |
| · Change in condition |
| Melting point/Melting range: Not determined |
| Boiling point/Boiling range: Not determined |
| · Flammability (solid, gaseous): Not applicable. |
| · Ignition temperature: Not determined |
| · Decomposition temperature: Not determined. |
| · Auto igniting: Product is not selfigniting. |
| · Danger of explosion: Product does not present an explosion hazard. |
| · Explosion limits: |
| Lower: Not determined. |
| Upper: Not determined. |
| · Vapor pressure: Not determined. |
| · Density at 20 °C (68 °F): 0.8 g/cm³ (6.676 lbs/gal) (ASTM D-1298) |
| · Relative density |
| · Vapour density Not determined. |
| · Evaporation rate Not determined. |
| · Solubility in / Miscibility with Water: Not determined. |
| · Partition coefficient (n-octanol/water): Not determined. |
| · Viscosity: |
| Dynamic: Not determined. |
| Kinematic at 40 °C (104 °F): 20 mm²/s (ASTM D-445) |
| · 9.2 Other information No further relevant information available. |

10: Stability and reactivity

- 10.1 Reactivity
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.

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- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
Avoid contact with acetaldehyde, acids, chlorine, ethylene oxide, isocyanate and strong oxidizing agents
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:** Information on hazardous ingredients
- **Primary irritant effect:**
 - **on the skin:** May cause skin irritation.
 - **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant
- **Carcinogenic categories** No known significant effects or critical hazards.

• IARC (International Agency for Research on Cancer)

| | |
|----------|--|
| Group 1 | Carcinogenic to humans |
| Group 2A | Probably carcinogenic to humans |
| Group 2B | Possibly carcinogenic to humans |
| Group 3 | Not classifiable as to its carcinogenicity to humans |
| Group 4 | Probably not carcinogenic to humans |

• NTP (National Toxicology Program)

None of the ingredients is listed.

• OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12: Ecological information

• 12.1 Toxicity

• Aquatic toxicity:

Information on hazardous ingredients

68131-40-8 Secondary alcohol ethoxylates (3)

EC50/ 48 h 3.1 mg/l (daphnia)

LC50/ 96 h 1-10 mg/l (Fish)

• 12.2 Persistence and degradability

No further relevant information available.

• 12.3 Bioaccumulative potential

No further relevant information available.

• 12.4 Mobility in soil

No further relevant information available.

• Ecotoxicological effects:

• Remark:

Secondary alcohol ethoxylates: This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents

• Additional ecological information:

• General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

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.
Waste/ unused products
Collect all waste in suitable and labeled containers and dispose according to local legislation.
- **Uncleaned packagings:**
- **Recommendation:**
Waste / used products
Waste products and empty packages dispose of in accordance with local regulations.
Empty containers may contain flammable residue and vapors.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14: Transport information

| | |
|---------------------------------------|---|
| • 14.1 UN-Number | |
| • DOT | Drums Not regulated |
| • DOT | Bulk: UN3082 |
| • ADR, IMDG, IATA | not applicable |
| • 14.2 UN proper shipping name | |
| • DOT | Drums Not regulated |
| • DOT | Bulk: Marine pollutant (Secondary alcohol ethoxylates) |
| • ADR, IMDG, IATA | not applicable |



14.3 Transport hazard class(es)

| | |
|-------------------|---|
| • DOT Bulk | |
| • Class | 9 Miscellaneous dangerous substances and articles |
| • Label | 9 |

| | |
|--------------------------|----------------|
| • ADR, IMDG, IATA | |
| • Class | not applicable |

| | |
|-----------------------------|-----------------|
| • 14.4 Packing group | |
| • DOT | Bulk III |
| • ADR, IMDG, IATA | not applicable |

| | |
|--------------------------------------|----|
| • 14.5 Environmental hazards: | |
| • Marine pollutant: | No |

| | |
|--|-----------------|
| • 14.6 Special precautions for user | Not applicable. |
|--|-----------------|

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| | |
|---|--|
| · 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · Transport/Additional information: | Not dangerous according to the above specifications. |
| · DOT | |
| · Quantity limitations | |
| | On passenger aircraft/rail: No limit |
| | On cargo aircraft only: No limit |
| · Remarks: | Special marking with the symbol (fish and tree). |
| · UN "Model Regulation": | - |

15: Regulatory information

| |
|--|
| · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture |
| · Sara |
| · Section 355 (extremely hazardous substances): |
| None of the ingredient is listed. |
| · Section 313 (Specific toxic chemical listings): |
| None of the ingredients is listed. |
| · TSCA (Toxic Substances Control Act): |
| Not regulated |
| · Proposition 65 |
| · Chemicals known to cause cancer: |
| None of the ingredients is listed. |
| · Chemicals known to cause reproductive toxicity for females: |
| None of the ingredients is listed. |
| · Chemicals known to cause reproductive toxicity for males: |
| None of the ingredients is listed. |
| · Chemicals known to cause developmental toxicity: |
| None of the ingredients is listed. |
| · Cancerogenity categories |
| · EPA (Environmental Protection Agency) |
| None of the ingredients is listed. |
| · TLV (Threshold Limit Value established by ACGIH) |
| None of the ingredients is listed. |

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- NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Contact: Sherwin Incorporated

- Date of preparation / last revision 05/01/2015 / -

- 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

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

- * Data compared to the previous version altered.

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