



acc. to OSHA HCS
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1: Identification

- · 1.1 Product identifier
- · Trade name: Penetrant DP-51
- · 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 Penetrant
- · 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

Chemtrec contract number 20103

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.

Suspected of damaging fertility or the unborn child.- NOT listed as carcinogenic by IARC, NTP or OSHA-Ca

- · 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

- · Signal word Danger
- · Hazard-determining components of labeling:

Blend of highly refined mineral oil

C.I.Solvent Red 164 (eq)

· Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

H351 Suspected of causing cancer.

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.

P321 Specific treatment (see on this label).

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P405 Store locked up.

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

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 2Fire = 1Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = *2 Fire = 1Reactivity = 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 | Distillates (petroleum), hydrotreated light | 25-50% |
|--------------------------------------|---|--------|
| EINECS: 265-149-8 | | |
| CAS: 68131-40-8 | Secondary alcohol ethoxylates (3) | 10-25% |
| CAS: 68131-40-8 | Secondary alcohol ethoxylates (1) | 1-10% |
| CAS: 92257-31-3 EINECS: 296-120-8 | C.I.Solvent Red 164 (eq) | 1-10% |
| CAS: 64742-94-5 | Solvent naphtha (petroleum), heavy arom. | 1-10% |

CAS: 64742-94-5 Solvent naphtha (petroleum), heavy arom.

EC number: 919-284-0

· Most important ingredients

| CAS: 64742-47-8 EINECS: 265-149-8 | Distillates (petroleum), hydrotreated light | 25-50% |
|--------------------------------------|---|--------|
| CAS: 68131-40-8 | Secondary alcohol ethoxylates (3) | 25-50% |
| CAS: 68131-40-8 | Secondary alcohol ethoxylates (1) | 1-10% |

Additional information:

Metabolic studies on some Azo-dyes have detected reduction of azo bonds to aromatic amines. It is prudent to assume that the product could metabolise to o-toluidine, which have been identified as animal carcinogens.

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

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

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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.

· 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.

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• Information about protection against explosions and fires:

Use explosion-proof apparatus / fittings and spark-proof tools.

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.
- · 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. For dry powder nuisance exposue use type P96(US) or type Pi(EU EN143 particle respirator. For higher level protection use type OV/AG/P99(US or ABEK-P2(EU EN 143) respirator cartridges.

· Protection of hands:



Protective gloves

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 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:



Safety glasses

Tightly sealed goggles

Body protection:

Protective work clothing Use protective suit.

9: Physical and chemical properties

• 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Fluid Color: Red

Odor: CharacteristicOdour threshold: Not determined.pH-value: Not determined.

· Change in condition

Melting point/Melting range: Undetermined. **Boiling point/Boiling range:** > 236 °C (> 457 °F)

Flash point: > 93 °C (> 199 °F) (ASTM D-93)

Flammability (solid, gaseous): Not applicable.
 Ignition temperature: 270 °C (518 °F)
 Decomposition temperature: Not determined.

· **Auto igniting:** Product is not selfigniting.

· Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

Lower: 0.5 Vol % **Upper:** 7.0 Vol %

· Vapor pressure: Not determined.

• Density at 20 °C (68 °F): 0.86 g/cm³ (7.177 lbs/gal) (ASTM D-1298)

Relative density
 Vapour density
 Evaporation rate
 Not determined.
 Not determined.

· Solubility in / Miscibility with

Water: Not determined.

• Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not determined.

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Kinematic: Not determined.

· Solvent content:

Organic solvents: 1.5 % VOC content: 1.5 %

13.0 g/l / 0.11 lb/gl

• 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.
- 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: No irritant effect.
- · 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 Status: Contains an o-Toluidine-based azo dye. Metabolic studies on some Azo-dyes,following prolonged skin or oral cavity contact, have detected reduction of azo bonds to aromatic amines. This product, therefore, could potentially metabolize to o-toluidine and o-aminoazotoluene upon prolongedskin or oral cavity contact. o-Toluidine and o-aminoazotoluene have been identified as animal carcinogens.

:Reproductive effects: May affect reproductive system. Contains: a version of 2-Naphthalenol,1-[[4-(phenylazo)phenyl]azo]-,arheptyl ar',ar"-me derivitives. A reproductive screening study in rats with some versions of 2-Naphthalenol,1-[[4-(phenylazo)phenyl]azo]-,ar-heptyl ar',ar"-me derivitives produced adverse effects on reproduction [ovarian atrophy; reduced litter size; reduced pup weight with no apparent abnormal morphology of the surviving pups] at 20 and 80 mg/kg/day. The relevance of these findings for humans is uncertain, but may be predictive of the potential to cause harm.

Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· 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





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68131-40-8 Secondary alcohol ethoxylates (3)

EC50/ 48 h 3.1 mg/l (daphnia) LC50/ 96 h 1-10 mg/l (Fish)

68131-40-8 Secondary alcohol ethoxylates (1)

EC50/ 48 h | 4.01 mg/l (daphnia) LC50/ 96 h | 3.4 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.
- · Ecotoxical 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 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- · 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 labelled 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, ADR, IMDG, IATA not applicable

· 14.2 UN proper shipping name

· DOT, ADR, IMDG, IATA not applicable

• 14.3 Transport hazard class(es)

· DOT, ADR, IMDG, IATA

· Class not applicable

· 14.4 Packing group

· DOT, ADR, IMDG, IATA not applicable

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• 14.5 Environmental hazards:

· Marine pollutant: No

• 14.6 Special precautions for user Not applicable.

• 14.7 Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

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):

All ingredients are listed.

- · 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.

· 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 05/28/2015 / -
- · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

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ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

DOT: US Department of Transportation

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)
VOC: Volatile Organic Compounds (USA, EU)
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

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

Carc. 2: Carcinogenicity, Hazard Category 2 Asp. Tox. 1: Aspiration hazard, Hazard Category 1

·* Data compared to the previous version altered.