

SAFETY DATA SHEET Permabond ASC10

1. Identification

Product identifier

Product name Permahond ASC10

Recommended use of the chemical and restrictions on use

Application Accelerator

Details of the supplier of the safety data sheet

Supplier Permabond LLC

14 Robinson Street Pottstown, PA 19464

USA

Telephone: 732-868-1372 or 800-640-7599

Website: www.permabond.com

Emergency telephone number

Emergency telephone Medical: Poison Control Center 866-827-6282 (toll free) or 303-389-1109 Transport:

CHEMTREC 800-424-9300

2. Hazard(s) identification

Classification of the substance or mixture

OSHA Regulatory Status Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200)

and is consistent with the provisions of the United Nations Globally Harmonized System of

Classification and Labeling of Chemicals (GHS).

Physical hazards Flam. Liq. 2 - H225

Health hazards Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304

Label elements

Pictogram







Signal word

Danger

Hazard statements H225 Highly flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.

P240 Ground/ bond container and receiving equipment.

P241 Use explosion-proof electrical equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing vapor/ spray.

P264 Wash contaminated skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301+P310 If swallowed: Immediately call a poison center/ doctor.

P302+P352 If on skin: Wash with plenty of water.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/ shower.

P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.

P312 Call a poison center/ doctor if you feel unwell.

P331 Do NOT induce vomiting.

P332+P313 If skin irritation occurs: Get medical advice/ attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Dispose of contents and/or container according to Federal, State/Provincial and local

governmental regulations.

Contains

HYDROCARBONS, C7, n-ALKANES, ISOALKANES, CYCLICS

3. Composition/information on ingredients

Mixtures

HYDROCARBONS, C7, n-ALKANES, ISOALKANES, CYCLICS

60-100%

CAS number: -

Classification

Flam. Liq. 2 - H225

Skin Irrit. 2 - H315

STOT SE 3 - H336

Asp. Tox. 1 - H304

Not relevant.

trans-DICHLOROETHYLENE

5-10%

CAS number: 156-60-5

Classification

Flam. Lig. 2 - H225

Acute Tox. 4 - H332

Not relevant.

N,N-DIMETHYL-PARA-TOLUIDINE CAS number: 99-97-8 *1%

Classification

Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT RE 2 - H373 Not relevant.

COPPER NAPHTHENATE <1%

CAS number: 1338-02-9

Classification

Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Not relevant.

2-ETHYLHEXANOIC ACID, COPPER SALT

<1%

CAS number: 22221-10-9

Classification

Acute Tox. 4 - H302 Not relevant.

2-ETHYLHEXANOIC ACID <1%

CAS number: 149-57-5

Classification

Repr. 2 - H361d

COPPER DI(ACETATE) <1%

CAS number: 142-71-2

Classification

Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Not relevant.

The full text for all hazard statements is displayed in Section 16.

4. First-aid measures

Description of first aid measures

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. If breathing stops, provide artificial respiration. Get medical attention

if symptoms are severe or persist.

Ingestion Do not induce vomiting. Get medical attention.

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Skin Contact Rinse immediately with plenty of water. Get medical attention if symptoms are severe or

persist after washing.

Eye contact Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Get medical

attention.

Most important symptoms and effects, both acute and delayed

General information Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause

chemical pneumonitis.

Inhalation Vapours may cause drowsiness and dizziness.

Ingestion May be fatal if swallowed and enters airways.

Skin contact Prolonged contact may cause redness, irritation and dry skin.

Indication of immediate medical attention and special treatment needed

Notes for the doctor Avoid vomiting and stomach flushing because of the risk of aspiration.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Foam, carbon dioxide or dry powder.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture

Specific hazards The product is flammable. Heating may generate flammable vapors. Vapors are heavier than

air and may spread near ground and travel a considerable distance to a source of ignition and

flash back.

Hazardous combustion

products

Burning produces irritating, toxic and obnoxious fumes. Oxides of carbon. Oxides of nitrogen.

Advice for firefighters

Protective actions during

firefighting

Containers close to fire should be removed or cooled with water.

Special protective equipment

for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. Remove or isolate

all sources of ignition. Provide adequate ventilation.

Environmental precautions

Environmental precautions Avoid the spillage or runoff entering drains, sewers or watercourses.

Methods and material for containment and cleaning up

Methods for cleaning up Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste

container.

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

7. Handling and storage

Precautions for safe handling

Use in a well ventilated area. Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking. Do not breathe vapours. Avoid contact with eyes, skin,

and clothing. Wash after use and before eating, smoking and using the toilet.

Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep away

from heat, sparks and open flame.

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

trans-DICHLOROETHYLENE

Long-term exposure limit (8-hour TWA): ACGIH 200 ppm 793 mg/m³

2-ETHYLHEXANOIC ACID

Long-term exposure limit (8-hour TWA): ACGIH 5 mg/m³ inhalable fraction and vapor

ACGIH = American Conference of Governmental Industrial Hygienists.

Exposure controls

Appropriate engineering

controls

Provide adequate general and local exhaust ventilation. Observe any occupational exposure

limits for the product or ingredients.

Eye/face protection Safety goggles or safety glasses with side shields. Full face protection should be used if the

potential for slashing or spraying exists.

Hand protection Nitrile rubber or Viton™ gloves are recommended. The most suitable glove should be chosen

in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Cotton or other absorbent gloves should not be worn.

Other skin and body

protection

Use engineering controls to reduce air contamination to permissible exposure level. Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged

vapor contact.

Respiratory protection Ensure adequate ventilation of the working area. Respiratory protection may be required if

excessive airborne contamination occurs. Use NIOSH approved respirator if there is potential to exceed exposure limit(s). This product should not be used under conditions of poor ventilation unless a NIOSH approved organic vapor respirator is used. Follow OSHA

1910.134 in the selection and use of respirators.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance Liquid.

Color Green.

Odor Aromatic hydrocarbons.

Odor thresholdNot available.pHNot available.Melting pointNot available.

Initial boiling point and range 96 - 99°C/205 - 210°F

Flash point -2°C/28.4°F

Evaporation rate 2.7 (diethyl ether = 1)

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Evaporation factor Not available.

Upper/lower flammability or

explosive limits

Lower flammable/explosive limit: 1.1% Upper flammable/explosive limit: 6.7%

Vapor pressure 35 mm Hg @ 20°C/68°F

Vapor density Approximately 3

Relative density 0.7 @ 25°C/77°F

Solubility(ies) Insoluble in water.

Partition coefficient Not available.

Auto-ignition temperature Not available.

Viscosity ~0.7 cP @ 25°C/77°F

Volatile organic compound This product contains a maximum VOC content of 99.9% (Estimated).

10. Stability and reactivity

Reactivity The following materials may react with the product: Acids. Oxidizing agents.

Stability Stable at normal ambient temperatures and when used as recommended.

Possibility of hazardous

reactions

There are no known reactivity hazards associated with this product.

Conditions to avoid Avoid heat, flames and other sources of ignition.

Materials to avoid Strong oxidizing agents.

Hazardous decomposition

products

Thermal decomposition could produce carbon monoxide, carbon dioxide, and unidentified

organic compounds.

11. Toxicological information

Information on toxicological effects

Skin corrosion/irritation

Skin corrosion/irritation Irritating to skin.

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitization

Respiratory sensitization Based on available data the classification criteria are not met.

Skin sensitization

Skin sensitization Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro

Based on available data the classification criteria are not met.

Genotoxicity - in vivo

Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity No component of this product present at levels great than or equal to 0.1% is identified as a

known carcinogen.

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Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure A single exposure may cause the following adverse effects: May cause drowsiness or

dizziness.

Aspiration hazard

Aspiration hazard May be fatal if swallowed and enters airways.

Inhalation May cause respiratory system irritation.

Ingestion May be fatal if swallowed and enters airways.

Skin Contact Irritating to skin.

Eye contact May cause discomfort.

Acute and chronic health

hazards

This product is moderately irritating.

Route of exposure Skin and/or eye contact Inhalation Ingestion

Toxicological information on ingredients.

HYDROCARBONS, C7, n-ALKANES, ISOALKANES, CYCLICS

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

5,840.0

Species Rat

ATE oral (mg/kg) 5,840.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,800.0

mg/kg)

Species Rat

ATE dermal (mg/kg) 2,800.0

Acute toxicity - inhalation

Acute toxicity inhalation

(LC₅₀ vapours mg/l)

23.3

Species Rat

ATE inhalation (vapours

23.3

mg/l)

Skin corrosion/irritation

Skin corrosion/irritation Read-across data. Method: OECD 404, Rabbit Irritating.

Serious eye damage/irritation

Serious eye

Read-across data. Not irritating.

damage/irritation

Skin sensitization

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Skin sensitization Read-across data. Not sensitizing.

Germ cell mutagenicity

Genotoxicity - in vitro Read-across data. Negative.

Carcinogenicity

Carcinogenicity Not available.

Reproductive toxicity

Reproductive toxicity fertility

Read-across data. Two-generation study - NOAEL 9000 ppm, Inhalation, Rat F1

Reproductive toxicity -

development

Read-across data. Developmental toxicity: - NOAEC: 1200 ppm, Inhalation, Rat

Specific target organ toxicity - single exposure

STOT - single exposure Not available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not available.

Aspiration hazard

Aspiration hazard Not available.

trans-DICHLOROETHYLENE

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

2,000.1

Species Rat

2,000.1 ATE oral (mg/kg)

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 5,000.0

mg/kg)

Species Rabbit

ATE dermal (mg/kg) 5,000.0

Acute toxicity - inhalation

Acute toxicity inhalation

24,000.0

(LC₅₀ gases ppmV)

Species Rat

ATE inhalation (gases

4,500.0

ppm)

N,N-DIMETHYL-PARA-TOLUIDINE

Acute toxicity - oral

Acute toxicity oral (LD₅o

139.0

mg/kg)

Species Rat

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ATE oral (mg/kg) 139.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,000.0

mg/kg)

Species Rabbit

ATE dermal (mg/kg) 300.0

Acute toxicity - inhalation

Acute toxicity inhalation 3.19

(LC₅₀ vapours mg/l)

ATE inhalation (vapours

mg/l)

3.19

Skin corrosion/irritation

Method: OECD 404, Rabbit Moderately irritating. Animal data

Serious eye damage/irritation

Serious eye

damage/irritation

Method: OECD 405, Rabbit Moderately irritating.

Skin sensitization

Skin sensitization Not sensitizing.

Germ cell mutagenicity

Genotoxicity - in vitro Ames test This substance has no evidence of mutagenic properties.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity -

fertility

Two-generation study - LOEL 72.977 mg/kg/day, , Rat F2

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Aspiration hazard Not available.

12. Ecological Information

Ecotoxicity No information available.

Bioaccumulative potential

Partition coefficient Not available.

13. Disposal considerations

Waste treatment methods

Disposal methods Dispose of according to Federal, State and local governmental regulations.

14. Transport information

UN Number

UN No. (IMDG) 1206 UN No. (ICAO) 1206 UN No. (DOT) UN1206

UN proper shipping name

Proper shipping name (IMDG) HEPTANES
Proper shipping name (ICAO) HEPTANES
Proper shipping name (DOT) HEPTANES

Transport hazard class(es)

DOT hazard class 3
DOT hazard label 3
IMDG Class 3
ICAO class/division 3

DOT transport labels



Transport labels



Packing group

IMDG packing group II
ICAO packing group II
DOT packing group II

Environmental hazards

Environmentally Hazardous Substance



15. Regulatory information

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities None above reporting de minimis.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

trans-DICHLOROETHYLENE

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SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None above reporting limits

SARA 313 Emission Reporting

COPPER NAPHTHENATE

2-ETHYLHEXANOIC ACID, COPPER SALT

SARA (311/312) Hazard Categories

Aspiration Hazard

Fire

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

This product contains a chemical known to the state of California to cause cancer.

This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Inventories

Canada - DSL/NDSL

All the ingredients are listed or exempt.

US-TSCA

All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification

Not listed.

16. Other information

Classification abbreviations

and acronyms

Flam. Liq. = Flammable liquid Skin Irrit. = Skin irritation

STOT SE = Specific target organ toxicity-single exposure

Asp. Tox. = Aspiration hazard

Revision date 3/26/2018

Revision 6

Supersedes date 1/25/2018

Hazard statements in full H225 Highly flammable liquid and vapor.

H226 Flammable liquid and vapor.

H301 Toxic if swallowed. H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H331 Toxic if inhaled. H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness. H361d Suspected of damaging the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.