



ARDEX LABS.

Safety Data Sheet Tar Remover

SECTION 1: Identification

Product identifier

Product name Tar Remover

Product number 6210

Recommended use of the chemical and restrictions on use

Tar remover

Supplier's details

Name Ardex Labs.
Address 2050 Byberry Rd
Philadelphia, PA 19116
United States of America

Telephone 2156980500
email info@ardexlabs.com

Emergency phone number(s)

800-424-9300
CHEMTREC – TOLL FREE 24 HOUR EMERGENCY TELEPHONE
NUMBER

SECTION 2: Hazard identification

Classification of the substance or mixture

GHS classification in accordance with OSHA (29 CFR 1910.1200)

- Carcinogenicity (chapter 3.6), Cat. 2
- Eye damage/irritation (chapter 3.3), Cat. 2A
- Flammable liquids (chapter 2.6), Cat. 3
- Toxic to reproduction (chapter 3.7), Cat. 2

GHS label elements, including precautionary statements

Pictogram



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Hazard statement(s)

H226	Flammable liquid and vapor
H319	Causes serious eye irritation
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P264	Wash hands and exposed skin thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use fire-extinguishing media appropriate for surrounding materials to extinguish. Water may be Use fire-extinguishing media appropriate for surrounding materials..
P403+P235	Store in a well ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to local, state, and federal regulations

SECTION 3: Composition/information on ingredients

Substances

Hazardous components

Component	Concentration
Stoddard solvent (CAS no.: 8052-41-3)	<= 65 % (Weight)
Solvent naphtha (petroleum), medium aliph (CAS no.: 64742-88-7)	<= 25 % (Weight)
XYLENES (MIXED) (CAS no.: 1330-20-7; EC no.: 215-535-7; Index no.: 601-022-00-9)	<= 20 % (Weight)
ETHYLBENZENE (CAS no.: 100-41-4; EC no.: 202-849-4; Index no.: 601-023-00-4)	>= 0 - <= 5 % (Weight)
TOLUENE (CAS no.: 108-88-3; EC no.: 203-625-9; Index no.: 601-021-00-3)	>= 0 - <= 1 %

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).
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If inhaled	Move to fresh air. Place in recovery position and keep comfortable.
In case of skin contact	Get medical attention if symptoms occur. Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
In case of eye contact	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
If swallowed	Rinse mouth thoroughly.
Personal protective equipment for first-aid responders	See Section 8 for exposure and PPE recommendations

Most important symptoms/effects, acute and delayed

Symptoms may be delayed.

Indication of immediate medical attention and special treatment needed, if necessary

No data available.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

Use fire-extinguishing media appropriate for surrounding materials. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Specific hazards arising from the chemical

Vapors may travel considerable distance to a source of ignition and flash back. Vapors may cause a flash fire or ignite explosively. Prevent buildup of vapors or gases to explosive concentrations.

Special protective actions for fire-fighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Further information

No data available.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind.

Environmental precautions

Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up

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Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Dike far ahead of larger spill for later recovery and disposal. Eliminate all ignition sources if safe to do so.

Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.

Reference to other sections

See section 1 for emergency contact, Section 8 for recommended PPE, section 13 for disposal.

SECTION 7: Handling and storage

Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with eyes. Wash hands thoroughly after handling. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Ground/bond container and receiving equipment. Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in a well-ventilated place. Store in a cool place.

Specific end use(s)

Tar remover.

SECTION 8: Exposure controls/personal protection

Control parameters

CAS: 100-41-4

Ethyl benzene

Cal/OSHA: 100 ppm, (ST) 125 ppm PEL inhalation; NIOSH: 100 ppm, (ST) 125 ppm REL inhalation; OSHA: 100 ppm PEL inhalation; 435 mg/m³ PEL inhalation

CAS: 108-88-3

Toluene

Cal/OSHA: See Annotated Z-2 PEL inhalation; NIOSH: See Annotated Z-2 REL inhalation; OSHA: See Annotated Z-2 ppm PEL inhalation; See Annotated Z-2 mg/m³ PEL inhalation

CAS: 1330-20-7

Xylenes (o-, m-, p-isomers)

Cal/OSHA: 100 ppm, (ST) 150 ppm, (C) 300 ppm PEL inhalation; NIOSH: 100 ppm, (ST) 150 ppm REL inhalation; OSHA: 100 ppm PEL inhalation; 435 mg/m³ PEL inhalation

CAS: 64742-88-7

Solvent naphtha (petroleum), medium aliph

1900 mg/m³ PEL-C; ACGIH: 525mg/m³ TLV®

CAS: 8052-41-3

Stoddard solvent

ACGIH (United States): 525 mg/m³ 8hours TWA; 100ppm 8hours TWA; NIOSH (United States): 1800 mg/m³ 15minutes REL-C; 350 mg/m³ 10hours TWA; OSHA (United States): 2900 mg/m³ 8hours PEL-TWA; 500 ppm 8hours PEL-TWA

Appropriate engineering controls

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Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Use explosion-proof ventilation equipment.

Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Avoid contact with eyes. When using do not smoke. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.

Individual protection measures, such as personal protective equipment (PPE)

Pictograms



Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Wear protective gloves.

Body protection

Wear clothing suitable for the task.

Respiratory protection

In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

Thermal hazards

No data available.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form	Liquid
Odor	No data available.
Odor threshold	No data available.
pH	No data available.
Melting point/freezing point	No data available.
Initial boiling point and boiling range	147 - 197 °C
Flash point	35c
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability limits	No data available.
Upper/lower explosive limits	No data available.
Vapor pressure	No data available.

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Vapor density	No data available.
Relative density	0.795
Solubility(ies)	No data available.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

SECTION 10: Stability and reactivity

Reactivity

No data available.

Chemical stability

Material is stable under normal conditions

Possibility of hazardous reactions

No data available.

Conditions to avoid

Heat, sparks, flames

Incompatible materials

No data available.

Hazardous decomposition products

No data available.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Solvent naphtha (petroleum), medium aliph
LD50 Oral - Rat - 5500-34600 mg/kg

Solvent naphtha (petroleum), medium aliph
LD50 Skin - Rabbit - 2000-15400mg/kg

Solvent naphtha (petroleum), medium aliph
LC50 Inhalation - Rat - 3400-8000ppm

XYLENES (MIXED)

LC50 Inhalation - Mouse - 3907 mg/l - 6hr

TOLUENE

LC50 Inhalation - Rat - 8000 mg/l - 4hr

Skin corrosion/irritation

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Skin - Human - 100ppm
Result: Mild irritant

Solvent naphtha (petroleum), medium aliph
Skin - Rabbit

Result: May be an irritant

Remarks: little immediate effect; may be mildly irritating; of 14 reported tests on rabbits, 7 rated this type of hydrocarbon "not irritating", 6 "irritating", with one inconclusive

Serious eye damage/irritation

Stoddard solvent

Eyes - Rabbit - 500mg - 8hours

Result: Moderate irritant

Solvent naphtha (petroleum), medium aliph

Eyes - Rabbit - >150ppm

Result: May be an irritant due to vapor

Remarks: liquid slightly irritating; 11 reported tests on rabbits all rated this type of hydrocarbon as "not irritating"¹

, some reports suggest that vapour irritating above 150ppm

ETHYLBENZENE

Eyes - Human - 200ppm

Result: Causes irritation to eyes

Respiratory or skin sensitization

Solvent naphtha (petroleum), medium aliph

Inhalation - Pimephales promelas (fathead minnow) - >400ppm

Result: May cause burning sensation in nose & throat, intoxication dizziness, fatigue

ETHYLBENZENE

Inhalation - Human - 21.5 g/m³ (5000ppm) - Seconds

Result: intolerable irritation of nose, eyes, and throat

Germ cell mutagenicity

No data available.

Carcinogenicity

ETHYLBENZENE

IARC carcinogen - Human

Result: Overall evaluation: 2B. Possibly carcinogenic.

Reproductive toxicity

No data available.

Summary of evaluation of the CMR properties

No data available.

STOT-single exposure

No data available.

STOT-repeated exposure

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No data available.

Aspiration hazard

Stoddard solvent

Inhalation

Result: Aspiration category 1

Additional information

Solvent naphtha (petroleum), medium aliph

Oral

Result: may cause diarrhoea & stomach discomfort – not a route of industrial exposure

SECTION 12: Ecological information

Toxicity

Solvent naphtha (petroleum), medium aliph

LC50 - Pimephales promelas (fathead minnow) - 45mg/litre emulsified, 18-20mg/litre - 96hr

Result: NOTE: Mineral spirits is essentially

water insoluble. The above tests recognize this. The 1st test emulsified the product, the 2nd equilibrated it with water, then tested.

Solvent naphtha (petroleum), medium aliph

LC50 - Daphnia magna (water flea) - 1.4, 1.9, 3-10, 21 & 40-89mg/litre - 48hr

Solvent naphtha (petroleum), medium aliph

LC50 - Pseudokirchneriella subcapitata (green algae) - 10-30mg/l - 72hr

Solvent naphtha (petroleum), medium aliph

LC50 - Tetrahymena pyriformis – computer estimate) - 678mg/l

ETHYLBENZENE

Log Kow - 3.15

XYLENES (MIXED)

LogKow - 3.12-3.20

Persistence and degradability

No data available.

Bioaccumulative potential

Stoddard solvent

LogPow

Result: Potential: high

Mobility in soil

Solvent naphtha (petroleum), medium aliph

Result: water insoluble; low soil mobility; adsorbs to soil helping it remain stationary

Results of PBT and vPvB assessment

No data available.

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Other adverse effects

No data available.

SECTION 13: Disposal considerations

Disposal of the product

Discharge, treatment, or disposal may be subject to national, state, or local laws.

Disposal of contaminated packaging

Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, triple-rinsed, properly bunged and promptly returned to a drum reconditioner, or properly disposed of in accordance with local, state, and federal regulations.

Waste treatment

Dispose of only in accordance with local, state, and federal regulations.

Sewage disposal

Do not dispose of in sewers.

Other disposal recommendations

No data available.

SECTION 14: Transport information

DOT (US)

UN Number: 1268

Class: 3

Packing Group: 3

Proper Shipping Name: Petroleum distillates, n.o.s.

Reportable quantity (RQ): No Data

Marine pollutant: Not regulated

Poison inhalation hazard:

IMDG

UN Number:

Class:

Packing Group:

EMS Number:

Proper Shipping Name:

IATA

UN Number:

Class:

Packing Group:

Proper Shipping Name:

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

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Massachusetts Right To Know Components

Chemical name: Toluene

CAS number: 108-88-3

Chemical name: Ethylbenzene

CAS number: 100-41-4

Chemical name: Xylene (mixed isomers)

CAS number: 1330-20-7

Chemical name: Stoddard solvent

CAS number: 8052-41-3

New Jersey Right To Know Components

Common name: TOLUENE

CAS number: 108-88-3

Common name: ETHYL BENZENE

CAS number: 100-41-4

Common name: XYLENES

CAS number: 1330-20-7

Common name: STODDARD SOLVENT

CAS number: 8052-41-3

Pennsylvania Right To Know Components

Chemical name: Benzene, methyl-

CAS number: 108-88-3

Chemical name: Benzene, ethyl-

CAS number: 100-41-4

Chemical name: Benzene, dimethyl-

CAS number: 1330-20-7

Chemical name: Stoddard solvent

CAS number: 8052-41-3

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical name: Toluene

CAS number: 108-88-3

Reportable quantity: 1000lbs

Common name: ETHYL BENZENE

CAS number: 100-41-4

Reportable quantity: 1000lbs

Common name: XYLENES

CAS number: 1330-20-7

Reportable Quantity: 100lbs

SARA 304 Emergency Release Notification

Chemical name: Toluene

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CAS number: 108-88-3
Reportable quantity: 1000lbs

Common name: ETHYL BENZENE
CAS number: 100-41-4
Reportable quantity: 1000lbs

Common name: XYLENES
CAS number: 1330-20-7
Reportable Quantity: 100lbs

SARA 311/312 Hazards

Chemical name: Toluene
CAS number: 108-88-3
Threshold Planning Quantity: 500lbs

Common name: ETHYL BENZENE
CAS number: 100-41-4
Threshold Planning Quantity: 500lbs

Chemical name: Stoddard solvent
CAS number: 8052-41-3
Fire Hazard, Threshold Planning quantity: 500lbs

SARA 313 Components

Chemical name: Toluene
CAS number: 108-88-3
Reportable quantity threshold for uses other than manufacturing: 10000lbs

Common name: ETHYL BENZENE
CAS number: 100-41-4
Reportable quantity for uses other than manufacturing: 10000lbs

Common name: XYLENES
CAS number: 1330-20-7
Reporting threshold for uses other than manufacturing: 10000

Clean Water Act 31 Hazardous Substances (40 CFR 117.3)

Chemical name: Toluene
CAS number: 108-88-3
Reportable quantity: 1000lbs

California Prop. 65 Components

Chemical name: Toluene
CAS number: 108-88-3
Known to the state of California to be a developmental toxin, female reproductive toxin

Chemical name: TOLUENE
CAS number: 108-88-3
01/01/1991 - developmental
08/07/2009 - Developmental, female

Common name: ETHYL BENZENE
CAS number: 100-41-4

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Known to the state of California to be carcinogenic.

Chemical name: ETHYLBENZENE

CAS number: 100-41-4

06/11/2004 - cancer

Chemical name: XYLENES (MIXED)

CAS number: 1330-20-7

06/11/2004 - Cancer

Clean Water Act Section 311 Hazardous Substances (40 CF 117.3)

Common name: ETHYL BENZENE

CAS number: 100-41-4

Reportable quantity: 1000lbs

SARA 311/312 Hazardous Chemical

Common name: XYLENES

CAS number: 1330-20-7

Threshold Planning Quantity: 500lbs

Clean Water Act 311 Hazardous Substance (40 CFR 117.3)

Common name: XYLENES

CAS number: 1330-20-7

Reportable Quantity: 100lbs

Toxic Substances Control Act (TSCA) Inventory

Listed

SECTION 16: Other information

Revision Date:

11/04/2015

Other Information:

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Party Responsible for the Preparation of This Document

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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.

North America GHS US 2012