



ARDEX LABS.

Safety Data Sheet Spot Remover

SECTION 1: Identification

Product identifier

Product name	Spot Remover
Product number	6209

Recommended use of the chemical and restrictions on use

Automotive detailing product

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)

- Aspiration hazard (chapter 3.10), Cat. 2
- Eye damage/irritation (chapter 3.3), Cat. 2A
- Flammable liquids (chapter 2.6), Cat. 2
- Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 2
- Skin corrosion/irritation (chapter 3.2), Cat. 2
- Toxic to reproduction (chapter 3.7), Cat. 2

GHS label elements, including precautionary statements

Pictogram



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Hazard statement(s)

H225	Highly flammable liquid and vapor
H305	May be harmful if swallowed and enters airways
H315	Causes skin irritation
H319	Causes serious eye irritation
H361	Suspected of damaging fertility or the unborn child
H401	Toxic to aquatic life

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.
P273	Avoid release to the environment.
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.
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.
P331	Do NOT induce vomiting.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use CO2/Foam to extinguish.
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

Other hazards which do not result in classification

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

Component	Concentration
Naphtha (petroleum), hydrotreated light (CAS no.: 64742-49-0)	<= 80 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
TOLUENE (CAS no.: 108-88-3; EC no.: 203-625-9; Index no.: 601-021-00-3)	45 %
CLASSIFICATIONS: Flammable liquids (chapter 2.6), Cat. 2; Toxic to reproduction (chapter 3.7), Cat. 2; Aspiration hazard (chapter 3.10), Cat. 1; Specific target organ toxicity, repeated exposure (chapter 3.9), Cat. 2; Skin corrosion/irritation (chapter 3.2), Cat. 2; Specific target	

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organ toxicity, single exposure (chapter 3.8), Cat. 3. HAZARDS: 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; H361d - Suspected of damaging the unborn child; H373 - May cause damage to organs through prolonged or repeated exposure.	
ETHYLBENZENE (CAS no.: 100-41-4; EC no.: 202-849-4; Index no.: 601-023-00-4)	< 0.1 %
CLASSIFICATIONS: Flammable liquids (chapter 2.6), Cat. 2; Acute toxicity (chapter 3.1), Cat. 4. HAZARDS: H225 - Highly flammable liquid and vapor; H332 - Harmful if inhaled.	
Benzene (CAS no.: 71-43-2; EC no.: 200-753-7; Index no.: 601-020-00-8)	< 0.1 %
CLASSIFICATIONS: Flammable liquids (chapter 2.6), Cat. 2; Carcinogenicity (chapter 3.6), Cat. 1A; Germ cell mutagenicity (chapter 3.5), Cat. 1B; Specific target organ toxicity, repeated exposure (chapter 3.9), Cat. 1; Aspiration hazard (chapter 3.10), Cat. 1; Eye damage/irritation (chapter 3.3), Cat. 2; Skin corrosion/irritation (chapter 3.2), Cat. 2. HAZARDS: H225 - Highly flammable liquid and vapor; H304 - May be fatal if swallowed and enters airways; H315 - Causes skin irritation; H319 - Causes serious eye irritation; H340 - May cause genetic defects; H350 - May cause cancer; H372 - Causes damage to organs through prolonged or repeated exposure.	
NAPHTHALENE (CAS no.: 91-20-3; EC no.: 202-049-5; Index no.: 601-052-00-2)	< 0.1 %
CLASSIFICATIONS: Carcinogenicity (chapter 3.6), Cat. 2; Acute toxicity (chapter 3.1), Cat. 4; Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 1; Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 1. HAZARDS: H302 - Harmful if swallowed; H351 - Suspected of causing cancer; H400 - Very toxic to aquatic life; H410 - Very toxic to aquatic life with long lasting effects.	

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice	Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later. Do not leave the victim unattended.
If inhaled	Move to fresh air. If breathing is difficult, give oxygen. Perform artificial respiration if breathing has stopped.
In case of skin contact	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If skin irritation persists, call a physician.
In case of eye contact	If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor. Protect unharmed eye. Keep eye wide open while rinsing.
If swallowed	Do NOT induce vomiting. Never give liquid to an unconscious person. Get medical attention immediately. Keep respiratory tract clear. Do not give milk or alcoholic beverages. Take victim immediately to hospital.
Personal protective equipment for first-aid responders	See Section 8 for exposure and PPE recommendations

Most important symptoms/effects, acute and delayed

No data available.

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.

Suitable extinguishing media: Alcohol-resistant foam. Carbon dioxide (CO₂). Dry chemical

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Unsuitable extinguishing media: High volume water jet.

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. Do not allow run-off from fire fighting to enter drains or water courses.

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.

Use a water spray to cool fully closed containers.

Further information

Collect contaminated fire extinguishing water separately.

This must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

For safety reasons in case of fire, cans should be stored separately in closed containments.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

Ensure adequate ventilation.

Remove all sources of ignition.

Evacuate personnel to safe areas.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions

Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with noncombustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Reference to other sections

For disposal see section 13.

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. No smoking.

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: 71-43-2 (EC: 200-753-7)

Benzene

ACGIH: 0.0250 mg/g BEI - urine; 0.500 mg/g BEI - urine; 2.5 ppm STEL inhalation; 0.5 ppm TWA inhalation; Cal/OSHA: 1 ppm, (ST) 5 ppm, See Section 5218 PEL inhalation; NIOSH: Ca, 0.1 ppm, (ST) 1 ppm, See Appendix A REL inhalation

CAS: 91-20-3

Naphthalene

Cal/OSHA: 10 ppm, (ST) 15 ppm PEL inhalation; NIOSH: 10 ppm, (ST) 15 ppm REL inhalation; OSHA: 10 ppm PEL inhalation; 50 mg/m³ PEL inhalation

Appropriate engineering controls

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. If exposure limits have not been established, maintain airborne levels to an acceptable level. Use explosion-proof ventilation equipment.

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

Pictograms



Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Wear appropriate gloves.

Body protection

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.

Respiratory protection

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

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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	129 - 144 °C
Flash point	20.5 °C
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.
Vapor density	No data available.
Relative density	No data available.
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.

Other safety information

No data available.

SECTION 10: Stability and reactivity

Reactivity

No data available.

Chemical stability

No data available.

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

Oral: ATEmix (): 7,428.571429 mg/kg

Naphtha (petroleum),
hydrotreated light

LC 50 (Rat,): > 5,200 mg/m3 (, Yes) 1 (reliable without restriction) LC 50
(Rat,): > 5,260 mg/m3 (, Yes) 1 (reliable without restriction) LC 50 (Rat,): >
5,000 mg/m3 (, Yes) 2 (reliable with restrictions)

Toluene LC 50 (Rat, 4 h): 8,000 mg/l

Benzene LC 50 (Rat, 7 h): 10,000 mg/l

Skin corrosion/irritation

No data available.

Serious eye damage/irritation

Ethylbenzene Exposure to 21.5 g/m3 (5000 ppm) ethylbenzene for a few seconds gives
intolerable irritation of nose, eyes, and throat

Exposure to a concentration of 5000 ppm causes intolerable irritation of the
eyes

Concentration of 200 ppm causes irritation of eyes

Naphthalene At concentrations of 15 ppm in air.

Respiratory or skin sensitization

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

No carcinogenic components identified

Reproductive toxicity

No data available.

Summary of evaluation of the CMR properties

No data available.

STOT-single exposure

No data available.

STOT-repeated exposure

No data available.

Aspiration hazard

No data available.

Additional information

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No data available.

SECTION 12: Ecological information

Toxicity

Toluene LC 50 (Rainbow trout, donaldson trout (*Oncorhynchus mykiss*), 24 h): 6.26 - 8.4 mg/l Mortality LC 50 (Pink salmon (*Oncorhynchus gorbuscha*), 24 h): 6.97 - 8.62 mg/l Mortality LC 50 (Pink salmon (*Oncorhynchus gorbuscha*), 24 h): 7.45 - 8.75 mg/l Mortality LC 50 (Medaka, high-eyes (*Oryzias latipes*), Mortality LC 50 (Medaka, high-eyes (*Oryzias latipes*), 24 h): 70 mg/l

Mortality

Naphthalene LC 50 (Fathead minnow (*Pimephales promelas*), 24 h): 7.39 - 8.14 mg/l Mortality LC 50 (Fathead minnow (*Pimephales promelas*), 48 h): 5.95 - 6.77 mg/l Mortality LC 50 (Pink salmon (*Oncorhynchus gorbuscha*), 96 h): 1.22 - 2.8 mg/l Mortality

Toluene LC 50 (Water flea (*Daphnia magna*), 24 h): 240 - 420 mg/l Mortality LC 50 (Brine shrimp (*Artemia salina*), 24 h): 33 mg/l Mortality LC 50 (Water flea (*Daphnia magna*), 24 h): 470 mg/l Mortality LC 50 (Brine shrimp (*Artemia* sp.), 24 h): 42.8 - 63.8 mg/l Mortality LC 50 (Rotifer (*Brachionus plicatilis*), 24 h): 519.5 - 585.7 mg/l Mortality

Benzene LC 50 (Water flea (*Daphnia cucullata*), 48 h): 356 mg/l Mortality LC 50 (Water flea (*Daphnia magna*), 48 h): 356 mg/l Mortality LC 50 (Pacific oyster (*Crassostrea gigas*), 48 h): 377 mg/l Mortality LC 50 (Water flea (*Daphnia cucullata*), 48 h): 390 mg/l Mortality LC 50 (Water flea (*Daphnia magna*), 48 h): 400 mg/l Mortality

Toluene Green algae (*Chlorella fusca*), Bioconcentration factor (BCF): 380 (Not reported)

Green algae (*Selenastrum capricornutum*), Bioconcentration factor (BCF): 3,016 (Static)

Green algae (*Chlorella fusca vacuolata*), Bioconcentration factor (BCF): 380 (Static)

Shore crab (*Hemigrapsus nudus*), Bioconcentration factor (BCF): 31 (Flow through)

Ide, silver or golden orfe (*Leuciscus idus*), Bioconcentration factor (BCF): 94 (Not reported)

24 h): 80 mg/l Mortality LC 50 (Zebra danio (*Danio rerio*), 24 h): > 100 mg/l Mortality

Benzene LC 50 (Fathead minnow (*Pimephales promelas*), 48 h): 26.74 - 43.67 mg/l

Mortality LC 50 (Medaka, high-eyes (*Oryzias latipes*), 24 h): 54 mg/l

Mortality LC 50 (Guppy (*Poecilia reticulata*), 48 h): 28.63 - 54.43 mg/l

Mortality LC 50 (Bluegill (*Lepomis macrochirus*), 24 h): 343 - 981 mg/l

Benzene Rotifer (*Brachionus plicatilis*), Bioconcentration factor (BCF): 100 (Static)

Northern anchovy (*Engraulis mordax*), Bioconcentration factor (BCF): 34.3 (Static)

Northern anchovy (*Engraulis mordax*), Bioconcentration factor (BCF): 30 (Static)

Striped bass (*Morone saxatilis*), Bioconcentration factor (BCF): 53.4 (Static)

Northern anchovy (*Engraulis mordax*), Bioconcentration factor (BCF): 8,450 (Static)

Persistence and degradability

Toluene Log Kow: 2.73

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Ethylbenzene Log Kow: 3.15
Benzene Log Kow: 2.13
Naphthalene Log Kow: 3.30

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Results of PBT and vPvB assessment

No data available.

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

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

Waste treatment

No data available.

Sewage disposal

No data available.

Other disposal recommendations

No data available.

SECTION 14: Transport information

UN Number	1993
UN Proper Shipping Name	Flammable liquids, n.o.s.(Naphtha (petroleum), hydrotreated light, Toluene)
Transport hazard class(es)	3
Packing group	II

SECTION 15: Regulatory information

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

Massachusetts Right To Know Components

Chemical name: Toluene

CAS number: 108-88-3

Chemical name: Ethylbenzene

CAS number: 100-41-4

Chemical name: Benzene

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CAS number: 71-43-2

Chemical name: Naphthalene

CAS number: 91-20-3

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: BENZENE

CAS number: 71-43-2

Common name: NAPHTHALENE

CAS number: 91-20-3

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

CAS number: 71-43-2

Chemical name: Naphthalene

CAS number: 91-20-3

California Prop. 65 components

Chemical name: TOLUENE

CAS number: 108-88-3

01/01/1991 - developmental

08/07/2009 - Developmental, female

Chemical name: ETHYLBENZENE

CAS number: 100-41-4

06/11/2004 - cancer

Chemical name: Benzene

CAS number: 71-43-2

02/27/1987 - cancer

12/26/1997 - developmental, male

Chemical name: NAPHTHALENE

CAS number: 91-20-3

04/19/2002 - cancer

CERCLA RQ

Toluene Reportable quantity: 1000 lbs.

Ethylbenzene Reportable quantity: 1000 lbs.

Benzene Reportable quantity: 10 lbs.

Naphthalene Reportable quantity: 100 lbs.

SARA 304 Emergency Release RQ

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Toluene 1000 lbs.
Ethylbenzene 1000 lbs.
Benzene 10 lbs.
Naphthalene 100 lbs.

SARA 311/312 Hazards

Toluene 500 lbs
Ethylbenzene 500 lbs
Benzene 500 lbs
Naphthalene 500 lbs

SARA 313 Components

Tuelene: RQ for users: 1000lbs, RQ for manufacturing and processing: 25000lbs

Clean Water Act 311

Toluene Reportable quantity: 1000 lbs.
Ethylbenzene Reportable quantity: 1000 lbs.
Benzene Reportable quantity: 10 lbs.
Naphthalene Reportable quantity: 100 lbs

California Prop. 65 Components

Toluene Developmental toxin.
Toluene Female reproductive toxin.
Ethylbenzene Carcinogenic.
Benzene Carcinogenic.
Benzene Developmental toxin.
Benzene Male reproductive toxin.
Naphthalene Carcinogenic.

Rhode Island RTK

Toluene Listed

HMIS Rating

Spot Remover	
HEALTH	* 2
FLAMMABILITY	3
PHYSICAL HAZARD	
PERSONAL PROTECTION	B

NFPA Rating



SECTION 16: Other information

Revision Date:
04/14/2016

Other Information:

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication

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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