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

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	

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 recomendations

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

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.

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

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

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

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

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

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