# SAFETY DATA SHEET

## 1. Identification

Product identifier	Ardex® Details™
Other means of identification	
Product code	6201
Recommended use	Automotive shine product
Recommended restrictions	None known.
Manufacturer/Importer/Supplie	er/Distributor information
Manufactured or sold by:	
Company name Address Telephone	Ardex Labs 2050 Byberry Rd Philadelphia PA 19116
General Information Technical Assistance Customer Service	215-698-0500
24-Hour Emergency (CHEMTREC) Website	800-424-9300 (US) 703-527-3887 (International) www.ardexlabs.com

## 2. Hazard(s) identification

Physical hazards	Flammable aerosols	Category 1
	Gases under pressure	Liquefied gas
Health hazards	Skin corrosion/irritation	Category 2
	Reproductive toxicity (fertility)	Category 2
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Specific target organ toxicity, repeated exposure	Category 2
	Aspiration hazard	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3
	Hazardous to the aquatic environment, long-term hazard	Category 2
OSHA defined hazards	Not classified.	
Label elements		



Signal word Hazard statement

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Suspected of damaging fertility. May cause damage to organs (nervous system, upper respiratory tract, skin, eyes) through prolonged or repeated exposure. Harmful to aquatic life. Toxic to aquatic life with long lasting effects.

Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Do not spray on an open flame or other ignition source. Do not apply while equipment is energized. Pressurized container: Do not pierce or burn, even after use. Extinguish all flames, pilot lights and heaters. Vapors will accumulate readily and may ignite. Use only with adequate ventilation; maintain ventilation during use and until all vapors are gone. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Do not breathe mist or vapor. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.
Response	If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If exposed or concerned: Get medical attention. Collect spillage.
Storage	Store in a well-ventilated place. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Exposure to high temperature may cause can to burst.
Disposal	Dispose of contents/container in accordance with local/regional/national regulations.
Hazard(s) not otherwise classified (HNOC)	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.

### Supplemental information

91.78% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment.

## 3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Naphtha (petroleum), hydrotreated light		64742-49-0	30 - 40
2-Methylpentane		107-83-5	20 - 30
Liquefied Petroleum Gas		68476-86-8	20 - 30
n-Hexane		110-54-3	1 - 3
Polymethylsiloxane		9016-00-6	1 - 3
d-Limonene		5989-27-5	< 1
2,2-Dimethylbutane		75-83-2	< 0.2
Vanillin		121-33-5	< 0.2

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.	
Skin contact	Remove contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.	
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.	
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.	
Most important symptoms/effects, acute and delayed	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Aspiration may cause pulmonary edema and pneumonitis. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.	
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.	
General information	IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.	

## 5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may rupture when exposed to heat or flame. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Fire-fighting equipment/instructions	In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up.
General fire hazards	Extremely flammable aerosol. Contents under pressure. Pressurized container may rupture when exposed to heat or flame.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Remove all possible sources of ignition in the surrounding area. Many vapors are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water. Stop the flow of material, if this is without risk. Prevent product from entering drains. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases. Use appropriate containment to avoid environmental contamination.
7. Handling and storage	
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. Avoid release to the environment. For product usage instructions, please see the product label.
Conditions for safe storage,	Level 3 Aerosol.
including any incompatibilities	Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause

50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Avoid spark promoters. These alone may be insufficient to remove static electricity. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

Occupational exposure limits				
US. OSHA Table Z-1 Limits f	or Air Contaminants	(29 CFR 1910.10	00)	
Components	Туре			/alue
n-Hexane (CAS 110-54-3)	PEL		1	800 mg/m3
			5	500 ppm
US. ACGIH Threshold Limit	Values			
Components	Туре		۱	/alue
2,2-Dimethylbutane (CAS 75-83-2)	STEL		1	000 ppm
,	TWA		5	500 ppm
2-Methylpentane (CAS 107-83-5)	STEL		1	000 ppm
	TWA			500 ppm
n-Hexane (CAS 110-54-3)	TWA		5	50 ppm
US. NIOSH: Pocket Guide to Components	Chemical Hazards Type		١	/alue
2,2-Dimethylbutane (CAS	Ceilin	g	1	800 mg/m3
75-83-2)		-		
	<b>T</b> 14/4			510 ppm
	TWA			350 mg/m3
	O e ilia	_		00 ppm
2-Methylpentane (CAS 107-83-5)	Ceilin	g	ľ	800 mg/m3
)			5	510 ppm
	TWA		3	350 mg/m3
			1	00 ppm
n-Hexane (CAS 110-54-3)	TWA		1	80 mg/m3
			5	50 ppm
US. AIHA Workplace Enviror Components	nmental Exposure Lo Type			/alue
d-Limonene (CAS	TWA		1	65.5 mg/m3
5989-27-5)				30 ppm
Vanillin (CAS 121-33-5)	TWA			0 mg/m3
Biological limit values				
ACGIH Biological Exposure Components Va	Indices alue	Determinant	Specimen	Sampling Time
n-Hexane (CAS 110-54-3) 0.	4 mg/l	2,5-Hexanedio n, without	Urine	*
		hydrolysis		
* - For sampling details, please	e see the source docu	iment.		
Exposure guidelines				
US - California OELs: Skin d	esignation			
n-Hexane (CAS 110-54-3	)	Can be	absorbed thro	bugh the skin.
US ACGIH Threshold Limit V				5
n-Hexane (CAS 110-54-3	)	Can be	absorbed thro	bugh the skin.
Appropriate engineering				r hour) should be used. Ventilation rates
controls	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. Eye wash facilities and emergency shower must be available when handling this product.			
Individual protection measures, Eye/face protection	such as personal pr Wear safety glasses			
Skin protection Hand protection	Wear protective glov	ves such as: Nitrile	. Polyvinyl chlo	pride (PVC). Viton®.

Material name: Ardex® Details™

Other	Wear appropriate chemical resistant clothing.
Respiratory protection	If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to determine actual employee exposure levels.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

### 9. Physical and chemical properties

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Appearance	
Physical state	Liquid.
Form	Aerosol.
Color	Water-white.
Odor	Mild solvent.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	-244.7 °F (-153.7 °C) estimated
Initial boiling point and boiling range	118.4 °F (48 °C) estimated
Flash point	< 0 °F (< -17.8 °C) Tag Closed Cup
Evaporation rate	Fast.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	plosive limits
Flammability limit - lower (%)	1 % estimated
Flammability limit - upper (%)	8 % estimated
Vapor pressure	1605 hPa estimated
Vapor density	> 1 (air = 1)
Relative density	0.64 estimated
Solubility (water)	Negligible.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	437 °F (225 °C) estimated
Decomposition temperature	Not available.
Viscosity (kinematic)	Not available.
Percent volatile	93.7 % estimated
10 Stability and reactivity	

## 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Heat, flames and sparks. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides.

### 11. Toxicological information

Inhalation

### Information on likely routes of exposure

May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting.

Skin contact	Causes skin irritation.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
Symptoms related to the physical, chemical and toxicological characteristics	Headache. May cause drowsiness and dizziness. Nausea, vomiting. Aspiration may cause pulmonary edema and pneumonitis. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity

May be fatal if swallowed and enters airways.	Narcotic effects.
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Product	Species	Test Results	
Ardex® Details™			
<u>Acute</u>			
Dermal			
LD50	Rabbit	5212 mg/kg estimated	
Inhalation			
LC50	Rat	464 mg/l, 4 hours estimated	
Oral			
LD50	Rat	7844 mg/kg estimated	
* Estimates for product may be	e based on additional component data not shown.		
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritati	on.	
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to cause skin sensitizati	on.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	This product is not considered to be a carcinogen by	IARC, ACGIH, NTP, or OSHA.	
IARC Monographs. Overall E	Evaluation of Carcinogenicity		
d-Limonene (CAS 5989-2	7-5) 3 Not classifiable as	to carcinogenicity to humans.	
Reproductive toxicity	Suspected of damaging fertility.		
Specific target organ toxicity - single exposure	May cause drowsiness and dizziness.		
Specific target organ toxicity - repeated exposure	May cause damage to organs through prolonged or r respiratory tract. Skin. Eyes.	epeated exposure: Nervous system. Upper	
Aspiration hazard	May be fatal if swallowed and enters airways. If aspir may cause chemical pneumonia, pulmonary injury or		
Chronic effects	May cause damage to organs through prolonged or r	concerted expecture	

## 12. Ecological information

otoxicity	Toxic to a	equatic life with long lasting effects.	
Product		Species	Test Results
Ardex® Details™			
Aquatic			
Crustacea	EC50	Daphnia	8831.3457 mg/l, 48 hours estimated
Fish	LC50	Fish	65.4125 mg/l, 96 hours estimated
Components		Species	Test Results
d-Limonene (CAS 598	9-27-5)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	69.6 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	0.619 - 0.796 mg/l, 96 hours

Components		Species	Test Results
n-Hexane (CAS 110-54-3)			
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	2.101 - 2.981 mg/l, 96 hours
Polymethylsiloxane (CAS 9	016-00-6)		
Aquatic			
Fish	LC50	Channel catfish (Ictalurus punctatus)	2.36 - 4.15 mg/l, 96 hours
Vanillin (CAS 121-33-5)			
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	53 - 61.3 mg/l, 96 hours
Partition coefficient n-oct	anor / water (	• ·	
2,2-Dimethylbutane		3.82	
2-Methylpentane		3.74	
d-Limonene n-Hexane		4.232 3.9	
Vanillin		1.37	
obility in soil	No data a		
her adverse effects		adverse environmental effects (e.g. ozone depl endocrine disruption, global warming potential)	
3. Disposal considerat	ions		
sposal of waste from		ed, this product is considered a RCRA ignitable	
sidues / unused products	puncture,	n sealed containers at licensed waste disposal s incinerate or crush. Do not allow this material t	o drain into sewers/water supplies. Do

Hazardous waste code	contaminate ponds, waterways or ditches with chemical or used container. Dispose in accordance with all applicable regulations. D001: Waste Flammable material with a flash point <140 F
Hazardous waste code	Duot. Waste Flammable material with a hash point < 140 F
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport information

DOT	
UN number	UN1950
UN proper shipping name	Aerosols, flammable, Limited Quantity, MARINE POLLUTANT (Hexanes)
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Environmental hazards	
Marine pollutant	Yes.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	N82
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None
ΙΑΤΑ	
UN number	UN1950
UN proper shipping name	Aerosols, flammable, Limited Quantity
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Packing group	Not applicable.

Environmental hazards	Yes.
ERG Code	10L
Other information	Read safety instructions, SDS and emergency procedures before handling.
Passenger and cargo aircraft	Allowed.
Cargo aircraft only	Allowed.
IMDG	
UN number	
UN proper shipping name Transport hazard class(es)	AEROSOLS, LIMITED QUANTITY, MARINE POLLUTANT
Class	2
Subsidiary risk	-
Packing group Environmental hazards	Not applicable.
Marine pollutant	Yes.
EmS	F-D, S-U
-	Read safety instructions, SDS and emergency procedures before handling.
15. Regulatory information	
US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
TSCA Section 12(b) Export N	lotification (40 CFR 707, Subpt. D)
Not regulated.	ated Substances (29 CFR 1910.1001-1050)
Not listed.	
SARA 304 Emergency releas	e notification
Not regulated.	
US EPCRA (SARA Title III) Se	ection 313 - Toxic Chemical: Listed substance
n-Hexane (CAS 110-54-3) CERCLA Hazardous Substar	
n-Hexane (CAS 110-54-3)	
CERCLA Hazardous Substar	
n-Hexane (CAS 110-54-3)	5000 LBS
	in the loss of any ingredient at or above its RQ require immediate notification to the National 4-8802) and to your Local Emergency Planning Committee.
Clean Air Act (CAA) Section	112 Hazardous Air Pollutants (HAPs) List
n-Hexane (CAS 110-54-3)	
Not regulated.	112(r) Accidental Release Prevention (40 CFR 68.130)
Safe Drinking Water Act (SDWA)	Not regulated.
Food and Drug Administration (FDA)	Not regulated.
Superfund Amendments and	Reauthorization Act of 1986 (SARA)
Section 311/312	Immediate Hazard - Yes
Hazard categories	Delayed Hazard - Yes
	Fire Hazard - Yes Pressure Hazard - Yes
	Reactivity Hazard - No
SARA 302 Extremely	No
hazardous substance	
US state regulations	

### **US state regulations**

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Liquefied Petroleum Gas (CAS 68476-86-8) Naphtha (petroleum), hydrotreated light (CAS 64742-49-0) n-Hexane (CAS 110-54-3)

- US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed.
- US. New Jersey Worker and Community Right-to-Know Act

2-Methylpentane (CAS 107-83-5) n-Hexane (CAS 110-54-3)

### **US. Massachusetts RTK - Substance List**

2-Methylpentane (CAS 107-83-5) n-Hexane (CAS 110-54-3)

### US. Pennsylvania Worker and Community Right-to-Know Law

3-Methylbutyl acetate (CAS 123-92-2) Acetophenone (CAS 98-86-2) 2-Methylpentane (CAS 107-83-5) n-Hexane (CAS 110-54-3)

### **US. Rhode Island RTK**

n-Hexane (CAS 110-54-3)

### US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

### Volatile organic compounds (VOC) regulations

#### **EPA**

VOC content (40 CFR 51.100(s))	93.7 %
Consumer products (40 CFR 59, Subpt. C)	Not regulated
State	
Consumer products	Not regulated
VOC content (CA)	93.7 %
VOC content (OTC)	93.7 %

### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

Issue date	05-28-2015	
Prepared by		
Version #	01	
Further information		
HMIS® ratings	Health: 2* Flammability: 4 Physical hazard: 0 Personal protection: B	

**NFPA** ratings





Disclaimer

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of Ardex's knowledge or obtained from sources believed by Ardex to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety professional, or Ardex Labs.