# SAFETY DATA SHEET

#### 1. Identification

Product identifier A-151 (Aerosol)

Other means of identification

**Part Number** 04320, M04320

**Recommended use** A spray degreaser designed for removing heavy residues from metal and other hard surfaces

where reduced flammability, toxicity and environmental impact are concerns.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name LPS Laboratories, a division of Illinois Tool Works, Inc.

Address 4647 Hugh Howell Rd.

Tucker, GA 30084

Country (U.S.A.)

Tel: +1 770-243-8800

In Case of Emergency 1-800-424-9300 (inside U.S.)

+001 703-527-3887 (outside U.S.)

Website www.lpslabs.com E-mail sds@lpslabs.com

# 2. Hazard(s) identification

Physical hazardsFlammable aerosolsCategory 1Health hazardsAcute toxicity, oralCategory 4Skin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2

OSHA hazard(s) Not classified.

Label elements



Signal word Danger

**Hazard statement** H222 - Extremely flammable aerosol.

H302 - Harmful if swallowed.

H319 - Causes serious eye irritation. H315 - Causes skin irritation.

**Precautionary statement** 

**Prevention** P251 - Pressurized container: Do not pierce or burn, even after use.

P211 - Do not spray on an open flame or other ignition source. P210 - Keep away from flames and hot surfaces-No smoking. P270 - Do not eat, drink or smoke when using this product. P280 - Wear protective gloves/eye protection/face protection.

P264 - Wash thoroughly after handling.

Response P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 - Rinse mouth.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical advice/attention. P302 + P352 - IF ON SKIN: Wash with plenty of soap and water. P362 - Take off contaminated clothing and wash before reuse. P332 + P313 - If skin irritation occurs: Get medical advice/attention.

P321 - Specific treatment (see this label).

Storage P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal P501 - Dispose of contents/container in accordance with local/regional/national/international

regulations.

Hazard(s) not otherwise classified (HNOC)

Not classified.

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### Supplemental information

Repeated exposure may cause skin dryness or cracking.

# 3. Composition/information on ingredients

#### **Mixtures**

<b>Hazardous components</b>
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Chemical name	CAS number	%
Distillates Petroleum, Hydroteated Light	64742-47-8	60 - < 70
Carbon Dioxide	124-38-9	1 - < 3
Other components below reportable levels		30 - < 40

#### 4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not

breathing, give artificial respiration. Call a physician if symptoms develop or persist.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and

shoes. Get medical attention if irritation develops and persists.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Call a physician or Poison Control Center immediately.

Ingestion In the unlikely event of swallowing contact a physician or poison control center. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Aspiration may cause pulmonary edema and pneumonitis.

Most important symptoms/effects, acute and delayed

Irritant effects. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Defatting of the skin. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Coughing. Shortness of breath. Behavioral changes. Decrease in motor functions. Symptoms of overexposure can include shortness of breath, drowsiness, headaches, confusion, decreased coordination, visual disturbances and vomiting, and are reversible if exposure is stopped. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim under observation. Symptoms may be delayed.

**General information** 

In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. In case of shortness of breath, give oxygen. Keep victim under observation.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Dry chemical powder. Foam, water spray or fog.

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 explode when exposed to heat or flame.

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 and/or explosion do not breathe fumes. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Use standard firefighting procedures and consider the hazards of other involved materials. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. Move containers from fire area if you can do so without risk. Cool containers exposed to heat with water spray and remove container, if no risk is involved. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Water runoff can cause environmental damage.

Specific methods

In the event of fire and/or explosion do not breathe fumes. Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Use standard firefighting procedures and consider the hazards of other involved materials. Use water spray to cool unopened containers. Move container from fire area if it can be done without risk.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Local authorities should be advised if significant spillages cannot be contained. Consider initial downwind evacuation for at least 500 meters (1/3 mile). ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Immediately evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate personal protective equipment. Ensure adequate ventilation. Avoid inhalation of vapors and spray mists. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

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# Methods and materials for containment and cleaning up

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). The product is immiscible with water and will spread on the water surface.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the MSDS.

**Environmental precautions** 

Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.

# 7. Handling and storage

Precautions for safe handling

DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Pressurized container: Do not pierce or burn, even after use. When using do not smoke. Use non-sparking tools and explosion-proof equipment. All equipment used when handling the product must be grounded. Avoid contact with eyes. Do not breathe vapors, aerosols. Avoid prolonged or repeated contact with skin. Use only in well-ventilated areas. Wear personal protective equipment. Wash thoroughly after handling. Avoid release to the environment.

Value

Conditions for safe storage, including any incompatibilities

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Keep away from heat, sparks and open flame. Ground/bond container and equipment. Keep out of the reach of children.

# 8. Exposure controls/personal protection

#### Occupational exposure limits

Components

US. OSHA Table Z-1 Limits	for Air Contaminan	ıts (29 CFR 1910.1000)
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Tyne

ı ype	Value	
PEL	9000 mg/m3	
	5000 ppm	
es		
Туре	Value	
STEL	30000 ppm	
TWA	5000 ppm	
emical Hazards		
Туре	Value	
REL	9000 mg/m3	
	5000 ppm	
STEL	54000 mg/m3	
	30000 ppm	
REL	100 mg/m3	
	PEL  PEL  Type  STEL  TWA  Pemical Hazards  Type  REL  STEL	PEL 9000 mg/m3 5000 ppm  es  Type Value  STEL 30000 ppm  TWA 5000 ppm  emical Hazards Type Value  REL 9000 mg/m3  5000 ppm  STEL 54000 mg/m3 30000 ppm

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

This material does not have established exposure limits.

Appropriate engineering controls

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.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Do not get in eyes. Wear safety glasses with side shields (or goggles). Eye wash fountain is

recommended.

Skin protection

Hydroteated Light (CAS

64742-47-8)

**Hand protection** For prolonged or repeated skin contact use suitable protective gloves. Chemical resistant gloves

are recommended.

Other Avoid contact with clothing. Do not get this material in contact with skin. Wear suitable protective

equipment. Chemical resistant gloves.

Respiratory protection 
No personal respiratory protective equipment normally required. In case of insufficient ventilation,

wear suitable respiratory equipment.

Thermal hazards Not available.

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**General hygiene** considerations

When using, do not eat, drink or smoke. Do not get in eyes. Avoid contact with skin. Wash hands before breaks and immediately after handling the product. Handle in accordance with good

industrial hygiene and safety practice.

# 9. Physical and chemical properties

**Appearance** Aerosol. Physical state Liquid. Form Aerosol.

Color Clear water-white Odor Characteristic. **Odor threshold** Not determined Not available. Melting point/freezing point Not available. Initial boiling point and boiling 383 °F (195 °C)

range

158.00 °F (70.00 °C) Tag Closed Cup Flash point

**Evaporation rate** < 0.1 BuAc Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

0.6 % Estimated

(%)

Flammability limit - upper

20.4 % Estimated

(%)

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%)

< 0.1 mm Hg @ 20 °C Vapor pressure

Vapor density 6.1 (air = 1)Relative density Not available. Not soluble in water Solubility(ies)

**Partition coefficient** > 1

(n-octanol/water)

> 381.2 °F (> 194 °C) **Auto-ignition temperature** 

**Decomposition temperature** Not available. **Viscosity** < 3 mm<sup>2</sup>/s @ 25 °C

Other information

Heat of combustion > 30 kJ/g

Specific gravity 0.84 - 0.86 @ 20 °C

VOC (Weight %) 0 % per U.S. State and Federal Consumer Product Regulations

# 10. Stability and reactivity

Reactivity Strong oxidizing agents.

**Chemical stability** Material is stable under normal conditions. Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

At thermal decomposition temperatures, carbon monoxide and carbon dioxide.

#### 11. Toxicological information

#### Information on likely routes of exposure

Harmful if swallowed. May be fatal if swallowed and enters airways. Ingestion

May be harmful if inhaled. Inhalation of vapors/fumes generated by heating this product may Inhalation

cause respiratory irritation with throat discomfort, coughing or difficulty breathing. Vapors have a

narcotic effect and may cause headache, fatigue, dizziness and nausea.

Skin contact Causes skin irritation. Frequent or prolonged contact may defat and dry the skin, leading to

discomfort and dermatitis.

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Symptoms related to the physical, chemical and toxicological characteristics

Irritating to eyes, respiratory system and skin. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Behavioral changes. Decrease in motor functions. Shortness of breath. Coughing. Defatting of the skin.

Information on toxicological effects

Acute toxicity Harmful if swallowed. May be fatal if swallowed and enters airways.

**Skin corrosion/irritation** Causes skin irritation. Defatting, drying and cracking of skin.

Serious eye damage/eye

irritation

Causes eye irritation.

Respiratory sensitizationBased on available data, the classification criteria are not met.Skin sensitizationBased on available data, the classification criteria are not met.Germ cell mutagenicityBased on available data, the classification criteria are not met.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

Specific target organ toxicity -

single exposure

Eyes. Lungs. Narcotic effects.

Specific target organ toxicity -

repeated exposure

Skin. Central nervous system. Respiratory system. Kidneys.

Aspiration hazard If aspirated into lungs during swallowing or vomiting, may cause chemical pneumonia, pulmonary

injury or death.

**Chronic effects** Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood.

Prolonged inhalation may be harmful.

**Further information** Symptoms may be delayed.

12. Ecological information

**Ecotoxicity** Ecological injuries are not known or expected under normal use.

Persistence and degradability Not inherently biodegradable.

Bioaccumulative potential Not available.

Partition coefficient n-octanol / water (log Kow)

A-151 (Aerosol) > 1

Mobility in soilNot available.Other adverse effectsNot available.

13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Local disposal regulations Not available

Hazardous waste code D003: Waste Reactive material

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions). Avoid discharge into water courses or onto the ground.

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Do not re-use empty containers.

14. Transport information

DOT

UN number UN1950

UN proper shipping name Aerosols, flammable

Transport hazard class(es) 2.1

Subsidary class(es)Not available.Packing groupNot available.Special precautions for userNot available.Labels requiredNot available.

Special provisions N82
Packaging exceptions 306
Packaging bulk None

IATA

UN number UN1950

**UN proper shipping name** Aerosols, flammable

Transport hazard class(es) 2.1

Material name: A-151 (Aerosol) 657 Version #: 01 Issue date: 01-30-2013 Subsidary class(es) -

Packaging group Not available.

Environmental hazards No

Labels required Not available.

ERG Code 10L

Special precautions for user Not available.

**IMDG** 

UN number UN1950 UN proper shipping name AEROSOLS

Transport hazard class(es) 2 Subsidary class(es) -

Packaging group Not available.

**Environmental hazards** 

Marine pollutant No

Labels requiredNot available.EmSF-D, S-USpecial precautions for userNot available.

Transport in bulk according to Annex II of MARPOL 73/78 and

No information available.

the IBC Code





IATA; IMDG



# 15. Regulatory information

**US** federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not on regulatory list.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes Delayed Hazard - Yes

Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No

SARA 302 Extremely No

hazardous substance

SARA 311/312 Hazardous No

chemical

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### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

# Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Not listed.

#### Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated.

#### **DEA Exempt Chemical Mixtures Code Number**

Not regulated.

Food and Drug

Not regulated.

Administration (FDA)

#### **US** state regulations

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

Carbon Dioxide (CAS 124-38-9)

Distillates Petroleum, Hydroteated Light (CAS 64742-47-8) US. New Jersey Worker and Community Right-to-Know Act

New Jersey Worker and Community Right-to-Rhow Act

Distillates Petroleum, Hydroteated Light (CAS

10000 LBS

64742-47-8)

# US. Pennsylvania RTK - Hazardous Substances

Carbon Dioxide (CAS 124-38-9)

Distillates Petroleum, Hydroteated Light (CAS 64742-47-8)

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

Carbon Dioxide (CAS 124-38-9)

Distillates Petroleum, Hydroteated Light (CAS 64742-47-8)

#### **US.** California Proposition 65

#### US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

### **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)	Yes
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

<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

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

**Issue date** 01-30-2013

Version # 01

Further information Not available.

**Disclaimer** The information in the sheet was written based on the best knowledge and experience currently

available.

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