



SAFETY DATA SHEET

Kleenco, Incorporated
Review Date 16-June 2016
Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Name D-Solver
Product Code 008-0414

Recommended use of the chemical and restrictions on use
Follow label instructions for proper use.

Details of the supplier of the safety data sheet

Kleenco Products, Incorporated
PO Box 1786
Bellevue, WA 98009
425-883-2976
msds@kleenco.com

Emergency telephone number

Infotrac
1-800-535-5053

2. HAZARDS IDENTIFICATION

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122).

Signal Words: DANGER

Pictograms:



GHS Classification:

Flammable Liquids	Category 3
Skin Irritation	Category 2
Eye Irritation	Category 2A
Skin Sensitisation	Category 1
Aspiration Hazard	Category 1

Hazard Statements:

Flammable liquid and vapor.
Causes serious eye irritation.
May cause an allergic skin reaction.
Causes skin irritation.

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

Precautionary Statements:

Keep out of reach of children.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ ventilating/ lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Contaminated work clothing should not be allowed out of the workplace.
Wash skin thoroughly after handling.
Wear protective gloves/ eye protection.

Response: IMMEDIATELY CALL A POISON CONTROL CENTER OR PHYSICIAN.

Eyes:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin:	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
Inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Ingestion:	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
Specific Treatment:	See Safety Data Section 4: "FIRST AID MEASURES" for additional information.
Fire:	In case of fire, use dry chemical to extinguish.
Storage:	Store in a well ventilated place. Keep cool.
Disposal:	Dispose of contents and container in accordance with local, state and federal regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS#	Hazardous Components (Chemical Name)	Concentration
64741-65-7	Odorless Mineral Spirits	60-100%
34590-94-8	Dipropylene Glycol Monomethyl Ether	1-10%
5989-27-5	D-limonene	1-10%
Unknown	Citrus Distillate	1-10%

All chemicals above cut off point are listed. Specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

Eye Contact:	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.
Skin Contact:	If on skin, rinse well with water. If skin irritation persists, call a physician. If on clothes, remove clothes.
Inhalation:	If user experiences breathing difficulty, move to air free of vapors. Administer oxygen or artificial respiration until medical assistance can be rendered.
Ingestion:	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. IMMEDIATELY CALL A POISON CONTROL CENTER OR PHYSICIAN.

5. FIREFIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:	Use carbon dioxide, dry chemical powder, or foam.
Specific hazards arising from the chemical:	Do not allow run-off from fire-fighting to enter drains or water courses.
Hazardous Combustion Products:	May include Carbon monoxide, Carbon dioxide and other toxic gases or vapors.
Protective Equipment and Precautions for Firefighters:	Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Cool fire exposed containers with water spray. Stay away from heads of containers that have been exposed to intense heat or flame.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
Environmental precautions:	Do not rinse spill onto the ground, into storm sewers or bodies of water.
Methods and materials for containment and cleaning up:	Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

7. HANDLING AND STORAGE

Safe Handling:	Handle in accordance with good industrial hygiene and safety practice. Read carefully all cautions and directions on product label before use. Since empty container retains residue, follow all label warnings even after container is empty. Dispose of empty container according to all regulations. Do not reuse this container.
Storage Conditions:	No smoking. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of reach of children. Do not store near flames or at elevated temperatures. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Incompatible Materials:	Keep away from oxidizing agents and strongly acid or alkaline materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits			
Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
Odorless Mineral Spirits CAS#64741-65-7	TLV: 200 mg/m ³	No data	TWA 10mg/m ³ respirable
Dipropylene Glycol Monomethyl Ether Cas# 34590-94-8	100 ppm TWA	100 ppm 600 mg/m ³	No data
D-limonene Cas# 5989-27-5	None	None	None

Engineering Controls:	Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Do not breathe vapours/dust. For OSHA controlled work place and other regular users. Use only with adequate ventilation under engineered air control systems designed to prevent exceeding appropriate TLV. For occasional use, where engineered air control is not feasible, use
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	properly maintained and properly fitted NIOSH approved respirator for organic solvent vapors. A dust mask does not provide protection against vapors.
PERSONAL PROTECTIVE EQUIPMENT	
Eye/Face Protection:	Safety glasses, chemical goggles or face shields are recommended to safeguard against potential eye contact, irritation or injury. Contact lenses should not be worn while working with chemicals.
Skin and Body Protection:	Wear impermeable gloves. Gloves contaminated with product should be discarded.
Respiratory Protection:	If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.
General Hygiene Considerations:	When using do not eat or drink. When using do not smoke. Wash hands and any exposed skin thoroughly after handling. See 29CFR 1910.132-138 for further guidance

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Odor	Slight orange/solvent odor
Odor threshold	No data
Color	Colorless to light yellow
pH	NA
Melting point/freezing point	No data
Initial boiling point and boiling range	No data
Flash point	>105F.
Evaporation rate	No data
Flammability	Flammable
Upper/lower flammability or explosive limit	No data
Vapor pressure	No data
Vapor density	No data
Relative density	0.78
Solubility	Insoluble
Partition coefficient n-octanol/water	No data
Auto-ignition temperature	No data
Decomposition temperature	No data

10. STABILITY AND REACTIVITY

Reactivity:	This material is considered to be non-reactive under normal conditions of use.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	Not expected to occur with normal handling and storage.
Conditions to avoid:	Keep away from heat, flame, sparks and other ignition sources.
Incompatible materials:	Avoid contact with halogens, peroxides, strong acids, strong oxidizing agents, acidic clays, vinyl chloride, iodine pentafluoride.
Hazardous decomposition products:	May include Carbon monoxide, Carbon dioxide and other toxic gases or vapors.

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure:	Eyes, Skin, Ingestion, Inhalation
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Symptoms of Exposure	
Eye Contact:	Pain, redness and/or irritation.
Skin Contact:	Irritating to the skin. May cause skin irritation and/or dermatitis.
Inhalation:	Nasal discomfort and coughing.
Ingestion:	Pain, nausea, vomiting and diarrhea.
Immediate, Delayed, Chronic Effects	
Product Information:	Data not available or insufficient for classification.
Target Organ Effects:	Eyes. Respiratory system. Skin.
Carcinogenicity:	No components of this product present at levels greater than or equal to 0.1% are listed as probable, possible or confirmed human carcinogen by ACGIH, IARC, NTP, or OSHA.
Chronic Toxicity	Not available.
Teratogenicity	Not available
Mutagenicity	Not available
Embryotoxicity	Not available
Specific Target Organ Toxicity	Not available

Hazardous Component >1% Acute Toxicity Information			
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Odorless Mineral Spirits CAS#64741-65-7	> 2000 mg/kg (rat)	> 2000 mg/kg (rat)	> Near saturated vapor concentration / 1 hours, (rat)
Dipropylene Glycol Monomethyl Ether Cas# 34590-94-8	5152 mg/kg, rat	No data	No data
D-limonene Cas# 5989-27-5	ATE: 2,340 mg/kg	ATE: 5,000 mg/kg	No data

12. ECOLOGICAL INFORMATION

Hazardous Component >1% Acute Ecotoxicity Information				
Chemical Name	Algae/Aquatic Plants	Fish	Toxicity to Microorganisms	Crustacea
Odorless Mineral Spirits CAS#64741-65-7	Low Toxicity LC >1000 mg/L	Low Toxicity LC >1000 mg/L	Low Toxicity LC >1000 mg/L	Low Toxicity LC >1000 mg/L
Dipropylene Glycol Monomethyl Ether Cas# 34590-94-8	No data	LC 50 >10,000 mg/ pimephales promelas, 96h	No data	No data
D-limonene Cas# 5989-27-5	LC 50 150 mg/l, green algae 72h	LC 50 0.702 mg/l, pimephales promelas, 96h	No data	No data

Persistence and Degradability	Not Available
Bioaccumulative Potential	Not Available
Mobility in Soil	Not available
PBT and vPvB Assessment	Not Available
Other Adverse Effects	Not Available

13. DISPOSAL CONSIDERATIONS

Waste Residues:	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of hazardous materials or containers.
Product Containers:	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of hazardous materials product container.

14. TRANSPORT INFORMATION

US DOT:	GROUND TRANSPORTATION: Combustible Liquid (D-Limonene, Mineral Spirits), n.o.s., NA 1993, PG III. DOT EXEMPTION FOR LIMITED QUANTITIES: Consumer Commodity; ORM-D, DOT-E-173.150. AIR TRANSPORTATION: Combustible Liquid (D-Limonene, Mineral Spirits), n.o.s., NA 1993, PG III. Quantity Limitations: 60L. Aircraft: Passenger. Quantity Limitations: 220L. Aircraft: Cargo. MARITIME TRANSPORTATION: Flammable Liquids, (D-Limonene, Mineral Spirits), n.o.s., Class 3, UN 1993, PG III. IMDG PAGE #: 3126.
Special Provisions:	The flash point for this material is greater than 100 F (38 C). Therefore, in accordance with 49 CFR 173.150(f) non-bulk containers (<450L or <119 gallon capacity) of this material may be shipped as nonregulated when transported solely by land, as long as the material is not a hazardous waste, a marine pollutant, or specifically listed as a hazardous substance.

15. REGULATORY INFORMATION

TSCA INVENTORY STATUS	All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.
California Proposition 65	No
SARA 302	No
SARA 313	No
WHMIS Canada	

SARA 311/312 Hazard	Yes/No
Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

16. OTHER INFORMATION

Revision	Date
Revision 1	06/16/2016

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