



MATERIAL SAFETY DATA SHEET

D3

SECTION 1: CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

Product Name: D3 SL3 SPOT LIFTER

Version Number: 1.0

Issue Date:06/19/2019

Supersedes Date: N.A.

Manufacturer For:D3 Industrial Products Inc

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Product/Recommended Uses: spot Lifter

SECTION 2: HAZARD IDENTIFICATION

Hazard Classification:

Specific Target Organ Toxicity-Single Exposure (Narcotic Effects) - Category 3

Aspiration Hazard – Category 1

Skin Irritation – Category 2

Eye Irritation – Category 2

Chronic aquatic toxicity – Category 2

Aerosols Category 1

Acute aquatic toxicity – Category 2

Acute toxicity dermal Category 5

Acute toxicity oral category 4

Pictograms:



Signal Word:

Danger

Hazardous Statements – Physical:

H222 – Extremely flammable aerosol

H229 – Pressurized container: May burst if heated

Hazardous Statements – Health:

H302 – Harmful if swallowed

H336 – May cause drowsiness or dizziness

H313 – May be harmful in contact with skin

H304 – May be fatal if swallowed and enters airways

H315 – Causes skin irritation

H319 – Causes serious eye irritation

Hazardous Statements – Environmental:

H401 – Toxic to aquatic life

H411 – Toxic to aquatic life with long lasting effects

Precautionary Statements – General:

P101 – If medical advice is needed, have product container or label at hand.

P102 – keep out of reach of children.

P103 – Read label before use.

Precautionary Statements – Prevention:

P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 – Do not spray on an open flame or other ignition source.

P273 – Avoid release to the environment.

P251 – Do not pierce or burn, even after use.

P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 – Wash thoroughly after handling.

P270 – Do not eat, drink or smoke when using this product.

P271 – Use only outdoors or in a well-ventilated area.

P233 – Keep container tightly closed.

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements – Response:

P391 – Collect spillage.

P301 + P312 – IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P304 + P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 – Call a POISON CENTER/doctor if you feel unwell.

P301 + P310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P331 – Do NOT induce vomiting.

P302 + P352 – IF ON SKIN: Wash with plenty of water.

P321 – For specific treatment see section 4.

P332 + P313 – If skin irritation occurs: Get medical advice/attention.

P362 + P364 – Take off contaminated clothing: And wash it before reuse.

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.

Precautionary Statements – Storage:

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

P403 + P405 – Store in a well-ventilated place. Store locked up.

Precautionary Statements – Disposal:

P501 – Dispose of contents/container to disposal recycling center. Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meet RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS. No.	% by Wt
Dimethyl Ether	115-10-6	15 – 20 Trade Secret*
Propane	74-98-6	5 – 10 Trade Secret*
Butane	106-97-8	8 – 10 Trade Secret*
Pentane	109-66-0	5 – 10 Trade Secret*
2-Methylpentane	107-83-5	15 – 20 Trade Secret*
Cyclohexane	110-82-7	10 – 15 Trade Secret*
1,1-Dichloro-1-fluoroethane	1717-00-6	20 – 25 Trade Secret*
Silica gel	112945-52-5	5 – 12 Trade Secret*

*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

SECTION 4: FIRST AID MEASURES**Inhalation:**

Remove source of exposure or move person to fresh air and keep comfortable for breathing. Get medical attention.

If exposed/feel unwell/concerned: Call a POISON CENTER/doctor.

Eliminate all ignition sources if safe to do so.

Skin Contact:

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before re-use.

Eye Contact:

Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelid open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

Ingestion:

Immediately call a POSIN CENTER/doctor. Do NOT induce vomiting. If vomiting occurs naturally, lie on your side, in the recovery position. Do not give anything.

SECTION 5: FIRE FIGHTING MEASURES**Suitable Extinguishing Media:**

Dry chemical, foam, carbon dioxide is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam. Sand or earth may be used for small fires only.

Do not direct a solid stream of water or foam into hot, burning pools this may results in frothing and increase fire intensity.

Unsuitable Extinguishing Media:

Not available.

Special hazards in Case of Fire:

Contents under pressure. Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force. Product is highly flammable and forms explosive mixtures with air, oxygen, and all oxidizing agents. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back.

During a fire, irritating and highly toxic gases may be generated during combustion or decomposition. High temperatures can cause sealed containers to rupture due to a build up of internal pressures. Cool with water.

Do NOT cut, drill, grind, or weld near full, partially full, or empty product containers. Container could potentially burst or be punctured upon mechanical impact, releasing flammable vapors.

Fire-Fighting Procedures:

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Water may be ineffective but can be used to cool containers exposed to heat or flame. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Special Protective Actions:

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES**Emergency Procedure:**

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Do not touch or walk through spilled material.

Isolate hazard area and keep unnecessary people away. Remove all possible sources of ignition in the surrounding area. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

If spilled material is cleaned up using a regulated solvent, the resulting waste mixture may be regulated.

Recommended Equipment:

Positive pressure, full-facepiece self-contained breathing apparatus (SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

Personal Precautions:

Avoid breathing vapor. Avoid contact with skin, eye or clothing. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Environmental Precautions:

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and nature waterways by using, sand, earth, or other appropriate barriers.

Methods and Material for Containment and Cleaning Up:

Cover spills with inert absorbent and place in closed chemical waste containers.

SECTION 7: HANDLING AND STORAGE

General:

Wash hands after use.

Do not get in eyes, on skin or on clothing.

Do not breathe vapors or mists.

Use good personal hygiene practices.

Eating, drinking and smoking in work areas is prohibited.

Remove contaminated clothing and protective equipment before entering eating areas.

Ventilation Requirements:

Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.

Storage Room Requirements:

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight, strong oxidizers and any incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous.

Do not cut, drill, grind, weld or perform similar operations on or near containers. Do not pressurize containers to empty them.

Store at temperature below 50°C/122°F.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye production:

Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids. If additional protections is needed for entire face. Use in combination with a face shield.

Skin Protection:

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over- boots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Launder oiled clothes or properly disposed of contaminated material, which cannot be decontaminated.

Respiratory Protection:

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers.

Appropriate Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties:**

General Physical form:	White Liquid
Odor, Color, Grade:	Colorless, Light solvent odor
Odor threshold	No Data Available
pH	No Data Available
Melting point	Not Applicable
Boiling Point	36.1 °C
Flash Point	-35°C (Closed Cup)
Evaporation rate	1.9 [Ref Std: ETHER=1]
Flammability (solid, gas)	Flammable Aerosol: Category 1.
Flammable Limits (LEL)	No Data Available
Flammable Limits (UEL)	No Data Available
Vapor Density	2.98 [Ref Std: AIR=1]
Density	0.702 g/ml
Specific Gravity	0.702 [Ref Std: WATER=1]
Solubility in Water	Nil
Solubility – non-water	No Data Available
Partition coefficient: n-Octanol/water	No Data Available
Autoignition temperature	No Data Available
Decomposition temperature	Not Applicable
Viscosity	Not Applicable
Molecular weight	No Data Available
Volatile Organic Compounds	95.8%

SECTION 10: STABILITY AND REACTIVITY**Stability:**

Material is stable at standard temperature and pressure.

Conditions to Avoid:

Keep away from direct sunlight and other sources of ignition.

Dropping containers may cause bursting.

Hazardous Reactions/Polymerization:

Will not occur.

Incompatible Materials:

Avoid contact with strong oxidizers, reducers, acids, and alkalis.

Hazardous Decomposition Products:

No data available.

SECTION 11: TOXICOLOGICAL INFORMATION

Skin Corrosion/Irritation:

Prolonged or repeated contact with this product may dry and/or defat the skin. This product may be harmful if it is absorbed through the skin.

Causes skin irritation.

Serious Eye Damage/Irritation:

Eye contact may lead to permanent damage if not treated promptly.

Liquid or vapors may irritate the eyes.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Eye contact may lead to permanent damage if not treated promptly.

Causes serious eye irritation.

Respiratory/Skin Sensitization:

No Data Available.

Germ Cell Mutagenicity:

No Data Available.

Carcinogenicity:

No Data Available.

Reproductive Toxicity:

No Data Available.

Specific Target Organ Toxicity – Single Exposure:

May cause drowsiness or dizziness

Aspiration Hazard:

May be fatal if swallowed and enters airways.

Acute Toxicity:

If inhaled, may cause dizziness, nausea, upper respiratory irritation, drowsiness, mental depression or narcosis, difficulty in breathing, irregular heart beats.

CYCLOHEXANE

LD50 (oral, rat): 6200 to 30400 mg/kg

LD50 (oral, mouse): 1300 mg/kg

LD50 (dermal, rabbit): Greater than 18000 mg/kg

PENTANE

LC50 (rat): 117000 ppm (364000 mg/m³) (4-hours exposure) (12, unconfirmed)

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:

Toxic to aquatic life

Toxic to aquatic life with long lasting effects

Persistence and Degradability:

No data available.

Bio-accumulative Potential:

No data available.

Mobility in Soil:

No data available.

Other Adverse Effects:

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal:

Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste management should be in full compliance with federal, state and local laws.

Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

SECTION 14: TRANSPORT INFORMATION

U.S. DOT Information:

Ground Transportation: (Continental United States, Canada & Mexico): Consumer Commodity ORM-D

IMDG Information:

Shipping Name: Aerosols, flammable

UN/NA #: 1950

Hazard Class: 2.1

Required Placard: Limited Quantity

Marine Pollutant: No data available

IATA Information:

We do NOT recommend this product to be shipped via air. It would need to be repacked by an authorized packing company and the DG would have to be completed by a licensed hazardous material shipping company.

SECTION 15: REGULATORY INFORMATION

311/312 Hazard Categories:

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

Immediate Hazard -Yes Delayed Hazard -Yes

Chemical Inventories:

The components of this product are in compliance with the chemical notification requirements of TSCA.

SECTION 16: OTHER INFORMATION

NFPA Hazard Classification

Health: 2 Flammability: 4 Instability: 0 Special Hazards: None

Aerosol Storage Code: 3

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

HMIS Hazard Classification

Health: 2 Flammability: 4 Physical Hazard: 0 Personal Protection: X

Hazardous Material Identification System (HMIS® IV) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on

the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA).

DISCLAIMER:

The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. D3 MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE.

User is responsible for determining whether the D3 product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a D3 product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the D3 product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.