

Revision Date: 03/29/2022

SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier: DRY MOLY LUBRICANT

Other means of identification

SDS number: RE1000046046

Recommended restrictions Recommended use: Lubricant Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information

Company Name: Sprayway, Inc.

Address: 1000 INTEGRAM DR.

Pacific, MO 63069

US

Telephone: 1-630-628-3000

Emergency telephone number: 1-866-836-8855

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable aerosol Category 1

Health Hazards

Skin Corrosion/Irritation Category 2 Serious Eye Damage/Eye Irritation Category 2A Toxic to reproduction Category 2 Specific Target Organ Toxicity -Category 3 Single Exposure (Narcotic effect.) Category 2

Specific Target Organ Toxicity -

Repeated Exposure

Aspiration Hazard Category 1

Environmental Hazards

Acute hazards to the aquatic Category 2

environment

Chronic hazards to the aquatic Category 2

environment

Label Elements

Hazard Symbol:



Signal Word: Danger



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Hazard Statement: Extremely flammable aerosol.

Causes skin irritation.

Causes serious eye irritation.

Suspected of damaging fertility or the unborn child.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid

release to the environment.

Response: IF INHALED: Remove person to fresh air and keep comfortable for

breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water If skin irritation occurs: Get medical advice/attention. IF SWALLOWED: Immediately call a POISON CENTER/doctor Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell. Specific

treatment (see on this label). Take off contaminated clothing. Collect

spillage.

Storage: Protect from sunlight. Do not expose to temperatures exceeding

50°C/122°F. Store locked up. Store in a well-ventilated place. Keep

container tightly closed.

Disposal: Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC):

None.

3. Composition/information on ingredients

Mixtures

| Chemical Identity | CAS number | Content in percent (%)* |
|---|------------|-------------------------|
| Naphtha, (Petroleum), Hydrotreated Light | 64742-49-0 | 10 - <25% |
| 2-Propanone | 67-64-1 | 20 - <50% |
| Propane | 74-98-6 | 10 - <20% |
| Butane | 106-97-8 | 10 - <20% |
| Heptane | 142-82-5 | 5 - <10% |
| Benzene, methyl- | 108-88-3 | 3 - <5% |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | 1 - <5% |
| Ligroine | 8032-32-4 | 1 - <5% |
| Molybdenum sulfide (MoS2) | 1317-33-5 | 1 - <5% |
| Cyclohexane, methyl- | 108-87-2 | 1 - <5% |

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.



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The exact concentration has been withheld as a trade secret.

4. First-aid measures

Description of necessary first-aid measures

Inhalation: Move to fresh air.

Skin Contact: Immediately flush with plenty of water for at least 15 minutes while

removing contaminated clothing and shoes. Wash contaminated

clothing before reuse. Get medical attention.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy

to do, remove contact lenses. Get medical attention.

Ingestion: Call a physician or poison control center immediately. Rinse mouth.

Never give liquid to an unconscious person. If vomiting occurs, keep

head low so that stomach content doesn't get into the lungs.

Personal Protection for First-

aid Responders:

Firefighters must use standard protective equipment including flame

retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: Get medical attention if symptoms occur.

5. Fire-fighting measures

General Fire Hazards: Use water spray to keep fire-exposed containers cool. Fight fire from a

protected location. Move containers from fire area if you can do so without

risk.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical:

Vapors may travel considerable distance to a source of ignition and flash

back.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No data available.

Special protective equipment

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.



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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Accidental release measures:

Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk, ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk.

Methods and material for containment and cleaning

Environmental Precautions:

up:

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

Avoid release to the environment. Prevent further leakage or spillage if safe

to do so. Do not contaminate water sources or sewer.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation):

No data available.

Safe handling advice:

Avoid contact with eyes. Wash hands thoroughly after handling. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source.

Pressurized container: Do not pierce or burn, even after use. 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 skin.

Contact avoidance measures:

No data available.

Storage

Safe storage conditions: Store locked up. Pressurized container: protect from sunlight and do not

expose to temperatures exceeding 50°C. Do not pierce or burn, even after

use.Aerosol Level 3

Safe packaging materials: No data available.

No data available. **Storage Temperature:**

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

| Occupational Exposure Limits | | | | |
|--|------|-------------|-------------|---|
| Chemical Identity | Туре | Exposure Li | imit Values | Source |
| Naphtha, (Petroleum), Hydrotreated Light | REL | 100 ppm | 400 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards, as amended |
| | TWA | 100 ppm | 400 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended |
| | PEL | 100 ppm | 400 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended |
| 2-Propanone | STEL | 1,000 ppm | 2,400 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended |



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| | PEL | 1,000 ppm | 2,400 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended |
|--|---------------|-----------|-------------|---|
| | TWA | 250 ppm | | US. ACGIH Threshold Limit Values, as amended |
| | TWA | 750 ppm | 1,800 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended |
| | STEL | 500 ppm | | US. ACGIH Threshold Limit Values, as amended |
| | REL | 250 ppm | 590 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards, as amended |
| Propane | REL | 1,000 ppm | 1,800 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards, as amended |
| | PEL | 1,000 ppm | 1,800 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended |
| | TWA | 1,000 ppm | 1,800 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended |
| Butane | REL | 800 ppm | 1,900 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards, as amended |
| | STEL | 1,000 ppm | | US. ACGIH Threshold Limit Values, as amended |
| | TWA | 800 ppm | 1,900 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000), as |
| Heptane | TWA | 400 ppm | 1,600 mg/m3 | amended US. OSHA Table Z-1-A (29 CFR 1910.1000), as |
| · | | | | amended |
| | REL | 85 ppm | 350 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards, as amended |
| | PEL | 500 ppm | 2,000 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended |
| | STEL | 500 ppm | 2,000 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended |
| | TWA | 400 ppm | | US. ACGIH Threshold Limit Values, as amended |
| | STEL | 500 ppm | | US. ACGIH Threshold Limit Values, as amended |
| | Ceil_T ime | 440 ppm | 1,800 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards, as amended |
| Benzene, methyl- | STEL | 150 ppm | 560 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended |
| | REL | 100 ppm | 375 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards, as amended |
| | TWA | 100 ppm | 375 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended |
| | Ceiling | 300 ppm | | US. OSHA Table Z-2 (29 CFR 1910.1000), as amended |
| | TWA | 20 ppm | | US. ACGIH Threshold Limit Values, as amended |
| | TWA | 200 ppm | | US. OSHA Table Z-2 (29 CFR 1910.1000), as amended |
| | MAX. CONC | 500 ppm | | US. OSHA Table Z-2 (29 CFR 1910.1000), as amended |
| | STEL | 150 ppm | 560 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards, as amended |
| Distillates (petroleum), hydrotreated light | REL | | 100 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards, as amended |
| Distillates (petroleum), hydrotreated light - Non-aerosol as total hydrocarbon vapor | TWA | | 200 mg/m3 | US. ACGIH Threshold Limit Values, as amended |
| ηγαισσαισση ναρσι | TWA | | 200 mg/m3 | US. ACGIH Threshold Limit Values, as amended |
| Molybdenum sulfide (MoS2) - Inhalable fraction as Mo | TWA | | 10 mg/m3 | US. ACGIH Threshold Limit Values, as amended |
| Molybdenum sulfide (MoS2) - Respirable fraction as Mo | TWA | | 3 mg/m3 | US. ACGIH Threshold Limit Values, as amended |
| Molybdenum sulfide (MoS2) - Total dust as Mo | TWA | | 10 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended |
| audit do mo | PEL | | 15 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended |
| Cyclohexane, methyl- | PEL | 500 ppm | 2,000 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended |
| | TWA | 400 ppm | 1,600 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended |
| | TWA | 400 ppm | | US. ACGIH Threshold Limit Values, as amended |
| | REL | 400 ppm | 1,600 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards, as amended |
| 2-Propanol | STEL | 500 ppm | 1,225 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards, as amended |
| | TWA | 200 ppm | | US. ACGIH Threshold Limit Values, as amended |
| | REL | 400 ppm | 980 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards, as amended |
| | PEL | 400 ppm | 980 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended |
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| | TWA | 400 ppm | 980 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended |
|---|--------------|---------|---|---|
| | STEL | 400 ppm | | US. ACGIH Threshold Limit Values, as amended |
| | STEL | 500 ppm | 1,225 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended |
| Benzene, ethenylmethyl- | REL | 100 ppm | 480 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards, as amended |
| | TWA | 100 ppm | 480 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended |
| | TWA | 50 ppm | | US. ACGIH Threshold Limit Values, as amended |
| | STEL | 100 ppm | | US. ACGIH Threshold Limit Values, as amended |
| | PEL | 100 ppm | 480 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended |
| Benzene, 1,2,4-trimethyl- | TWA | 25 ppm | | US. ACGIH Threshold Limit Values, as amended |
| | TWA | 25 ppm | 125 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000), as |
| | REL | 25 ppm | 125 mg/m3 | amended US. NIOSH: Pocket Guide to Chemical Hazards, as |
| Hexane | TWA | | 180 mg/m3 | amended US. OSHA Table Z-1-A (29 CFR 1910.1000), as |
| nexane | | 50 ppm | | amended |
| | PEL | 500 ppm | 1,800 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended |
| | REL | 50 ppm | 180 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards, as amended |
| | TWA | 50 ppm | | US. ACGIH Threshold Limit Values, as amended |
| Cyclohexane | TWA | 100 ppm | | US. ACGIH Threshold Limit Values, as amended |
| | TWA | 300 ppm | 1,050 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000), as |
| | | | | amended |
| | REL | 300 ppm | 1,050 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards, as amended |
| | PEL | 300 ppm | 1,050 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended |
| Benzene, ethyl- | STEL | 125 ppm | 545 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards, as amended |
| | REL | 100 ppm | 435 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards, as amended |
| | PEL | 100 ppm | 435 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 |
| | STEL | | | CFR 1910.1000), as amended US. OSHA Table Z-1 Limits for All Contaminants (29 CFR 1910.1000), as amended |
| | | 125 ppm | 545 mg/m3 | amended |
| | TWA | 100 ppm | 435 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended |
| | TWA | 20 ppm | | US. ACGIH Threshold Limit Values, as amended |
| Crystalline Silica - Respirable dust. | REL | | 0.05 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards, as amended |
| Crystalline Silica - Respirable. | TWA | | 2.4 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended |
| | TWA | | 0.1 mg/m3 | US. OSHA Table Z-3 (29 CFR 1910.1000), as |
| Omistall's a O'l's a Dans's bla | TIAZA | | 0.005/0 | amended |
| Crystalline Silica - Respirable fraction. | TWA | | 0.025 mg/m3 | US. ACGIH Threshold Limit Values, as amended |
| Crystalline Silica - Respirable dust. | TWA | | 0.1 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended |
| Crystalline Silica - Respirable dust. | TWA | | 0.05 mg/m3 | US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended |
| Crystalline Silica - Respirable dust. | PEL | | 0.05 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended |
| Crystalline Silica - Respirable dust. | OSHA _ACT | | 0.025 mg/m3 | US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended |
| Benzene | REL | 0.1 ppm | | US. NIOSH: Pocket Guide to Chemical Hazards, as |
| | TWA | 1 ppm | | us. OSHA Table Z-1-A (29 CFR 1910.1000), as |
| | Ceiling | 25 ppm | | amended US. OSHA Table Z-2 (29 CFR 1910.1000), as |
| | | | | amended |
| | TWA | 0.5 ppm | | US. ACGIH Threshold Limit Values, as amended |
| | STEL | 2.5 ppm | | US. ACGIH Threshold Limit Values, as amended |
| | STEL | 5 ppm | | US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended |
| | OSHA _ACT | 0.5 ppm | | US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended |
| | TWA | 10 ppm | | US. OSHA Table Z-2 (29 CFR 1910.1000), as amended |
| | 1 | 1 | | Lamonaca |



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| MAX. CONC | 50 ppm | US. OSHA Table Z-2 (29 CFR 1910.1000), as amended |
|--------------|--------|--|
| STEL | 5 ppm | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended |
| TWA | 1 ppm | US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended |
| STEL | 1 ppm | US. NIOSH: Pocket Guide to Chemical Hazards, as amended |

Biological Limit Values

| iological Ellint Values | T | 1 |
|---|--------------------------------|-----------|
| Chemical Identity | Exposure Limit Values | Source |
| 2-Propanone (acetone: Sampling time: End of shift.) | 25 mg/l (Urine) | ACGIH BEL |
| Benzene, methyl- (toluene: Sampling time: End of shift.) | 0.03 mg/l (Urine) | ACGIH BEL |
| Benzene, methyl- (o-Cresol, with hydrolysis: Sampling time: End of shift.) | 0.3 mg/g (Creatinine in urine) | ACGIH BEL |
| Benzene, methyl- (toluene: Sampling time: Prior to last shift of work week.) | 0.02 mg/l (Blood) | ACGIH BEL |
| 2-Propanol (acetone: Sampling time: End of shift at end of work week.) | 40 mg/l (Urine) | ACGIH BEL |
| Benzene, ethyl- (Sum of mandelic acid and phenylglyoxylic acid: Sampling time: End of shift.) | 0.15 g/g (Creatinine in urine) | ACGIH BEL |
| Hexane (2,5-Hexanedion, without hydrolysis: Sampling time: End of shift.) | 0.5 mg/l (Urine) | ACGIH BEL |
| Benzene (S-Phenylmercapturic acid: Sampling time: End of shift.) | 25 μg/g (Creatinine in urine) | ACGIH BEL |
| Benzene (t,t-Muconic acid: Sampling time: End of shift.) | 500 μg/g (Creatinine in urine) | ACGIH BEL |

Exposure guidelines

| <u> </u> | | |
|--------------------------|--------------------------------------|-------------------------|
| Distillates (petroleum), | US. ACGIH Threshold Limit Values, as | Can be absorbed through |
| hydrotreated light | amended | the skin. |
| | US. ACGIH Threshold Limit Values, as | Can be absorbed through |
| | amended | the skin. |
| Hexane | US. ACGIH Threshold Limit Values, as | Can be absorbed through |
| | amended | the skin. |
| Benzene | US. ACGIH Threshold Limit Values, as | Can be absorbed through |
| | amended | the skin. |

Appropriate Engineering

Controls

No data available.

Individual protection measures, such as personal protective equipment

Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin Protection

Hand Protection: No data available.

Skin and Body Protection: Wear chemical-resistant gloves, footwear, and protective clothing

appropriate for the risk of exposure. Contact health and safety professional

or manufacturer for specific information.

Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from

local supervisor.

Hygiene measures: Avoid contact with eyes. Observe good industrial hygiene practices. When

using do not smoke. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash contaminated clothing before reuse. Avoid contact with skin. Wash hands

before breaks and immediately after handling the product.

9. Physical and chemical properties

Appearance

Physical state: liquid

Form: Spray Aerosol
Color: No data available.



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Odor: No data available. Odor Threshold: No data available. pH: No data available. Freezing point: No data available. **Boiling Point:** No data available. **Flash Point:** Estimated -104 °C **Evaporation Rate:** No data available. Flammability (solid, gas): No data available. Explosive limit - upper (%): Estimated 9.5 %(V) Explosive limit - lower (%): Estimated 1.9 %(V)

Vapor pressure: 1,723 - 3,102 hPa (20 °C) 4,136 - 5,515 hPa (54 °C)

Vapor density (air=1): No data available. Density: No data available. Relative density: No data available. Solubility in Water: No data available. Solubility (other): No data available. Partition coefficient (n-octanol/water): No data available. No data available. **Self Ignition Temperature: Decomposition Temperature:** No data available. Kinematic viscosity: No data available. **Dynamic viscosity:** No data available. **Explosive properties:** No data available.

10. Stability and reactivity

Oxidizing properties:

Reactivity: No data available.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous

reactions:

No data available.

No data available.

Conditions to avoid: Avoid heat or contamination.

Incompatible Materials: No data available.

Hazardous Decomposition

Products:

No data available.

11. Toxicological information

Information on likely routes of exposure

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.



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Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: ATEmix: 55,807.97 mg/kg

Dermal

Product: ATEmix: 5,736.46 mg/kg

Inhalation

Product: Not classified for acute toxicity based on available data.

Repeated dose toxicity

Product: No data available.

Components:

Naphtha, (Petroleum), NOAEL (Rat(Female, Male), Inhalation): 10,000 mg/m3 Inhalation

Hydrotreated Light Experimental result, Key study

LOAEL (Rat(Female, Male), Oral, 13 Weeks): 1,250 mg/kg Oral Readacross based on grouping of substances (category approach), Key study

NOAEL (Rat(Female, Male), Dermal, 28 d): > 375 mg/kg Dermal

Experimental result, Supporting study

2-Propanone NOAEL (Rat(Male), Oral, 13 Weeks): 10,000 ppm(m) Oral Experimental

result, Key study

Propane NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation

Experimental result, Key study

LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation

Experimental result, Key study

Butane LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation

Experimental result, Key study

NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation

Experimental result, Key study

Heptane NOAEL (Rat(Male), Inhalation): 12,470 mg/m3 Inhalation Experimental

result, Key study

Benzene, methyl- LOAEL (Rat(Female, Male), Oral, 13 Weeks): 1,250 mg/kg (Target

Organ(s): Liver, Kidney) Oral Experimental result, Key study NOAEL (Rat(Female, Male), Inhalation): 625 ppm(m) Inhalation

Experimental result, Key study

NOAEL (Rat(Female, Male), Inhalation - vapor): 2,355 mg/l Inhalation

Experimental result, Key study

Distillates (petroleum), hydrotreated light

NOAEL (Rat(Female, Male), Inhalation): >= 24 mg/m3 Inhalation

Experimental result, Key study

NOAEL (Rat(Female), Oral, 70 - 147 d): 750 mg/kg Oral Experimental result,

Key study

Ligroine NOAEL (Rat(Female, Male), Inhalation, 4 - 20 Weeks): 10,032 mg/m3

Inhalation Experimental result, Supporting study

NOAEL (Rat(Female, Male), Dermal, 5 - 28 d): 3,750 mg/kg Dermal

Experimental result, Key study



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Cyclohexane, methyl- NOAEL (Rat(Female, Male), Inhalation): 1,600 mg/m3 Inhalation

Experimental result, Key study

LOAEL (Rat(Female, Male), Oral, 28 d): 1,000 mg/kg Oral Experimental

result, Key study

NOAEL (Rat(Female, Male), Oral, 28 d): 250 mg/kg Oral Experimental

result, Key study

Skin Corrosion/Irritation

Product: No data available.

Components:

Naphtha, (Petroleum), In vitro (Human): not corrosive

Hydrotreated Light

2-Propanone in vivo (Rabbit): Not irritant
Heptane in vivo (Rabbit): Irritating
Benzene, methylDistillates (petroleum), in vivo (Rabbit): Not irritant

Distillates (petroleum), hydrotreated light

Ligroine

In vitro (Human): classification not possible based on data

in vivo (Rabbit): Study design not appropriate to classify skin irritation.

In vitro (Human): not corrosive

Cyclohexane, methyl- estimated Irritating.

Serious Eye Damage/Eye Irritation

Product: No data available.

Components:

Naphtha, (Petroleum),

Hydrotreated Light

Rabbit, 24 - 72 hrs: Not irritating

2-Propanone Irritating.

Rabbit, 24 hrs: Minimum grade of severe eye irritant

Heptane Rabbit, 24 - 72 hrs: Not irritating

Benzene, methyl- Rabbit, 24 - 72 hrs: Not irritating

Distillates (petroleum),

hydrotreated light

Rabbit, 24 - 72 hrs: Not irritating

Ligroine Rabbit, 24 - 72 hrs: Not irritating

Cyclohexane, methyl- Rabbit, 0.5 - 168 hrs: Not irritating

Respiratory or Skin Sensitization

Product: No data available.

Components:

Naphtha, (Petroleum), Skin sensitization:, in vivo (Guinea pig): Non sensitising

Hydrotreated Light

2-Propanone

Skin sensitization:, in vivo (Guinea pig): Non sensitising
Skin sensitization:, in vivo (Guinea pig): Non sensitising
Benzene, methylDistillates (petroleum),
Skin sensitization:, in vivo (Guinea pig): Non sensitising
Skin sensitization:, in vivo (Guinea pig): Non sensitising

hydrotreated light

Ligroine Skin sensitization:, in vivo (Guinea pig): Non sensitising

Cyclohexane, methyl- Skin sensitization:, in vivo (Guinea pig): Non sensitising

Carcinogenicity

Product: No data available.



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Components:

Cyclohexane, methyl- May cause cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: No data available.

Components:

Benzene, methyl- Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Components:

2-Propanone Inhalation - vapor: Narcotic effect. - Category 3 with narcotic effects.

Heptane Narcotic effect. - Category 3 with narcotic effects.

Benzene, methyl- Inhalation - vapor: Narcotic effect. - Category 3 with narcotic effects. Cyclohexane, methyl- Inhalation - vapor: Narcotic effect. - Category 3 with narcotic effects.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:

Benzene, methyl- Category 2

Target Organs

Specific Target Organ Toxicity - Single Exposure: Narcotic effect.

Aspiration Hazard

Product: No data available.

Components:

Naphtha, (Petroleum), May be fatal if swallowed and enters airways.

Hydrotreated Light

Heptane May be fatal if swallowed and enters airways.

Benzene, methylDistillates (petroleum), May be fatal if swallowed and enters airways.

May be fatal if swallowed and enters airways.

hydrotreated light

Ligroine May be fatal if swallowed and enters airways. Cyclohexane, methyl- May be fatal if swallowed and enters airways.

Other effects: No data available.



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12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Components:

Naphtha, (Petroleum),

Hydrotreated Light

LC 50 (96 h): 8.41 mg/l Experimental result, Key study

2-Propanone LC 50 (Oncorhynchus mykiss, 96 h): 5,540 mg/l Experimental result, Key

study

Propane LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study

Butane LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study

Benzene, methyl- LC 50 (Oncorhynchus kisutch, 96 h): 5.5 mg/l Experimental result, Key study

Cyclohexane, methyl- LC 50 (Oryzias latipes, 96 h): 2.07 mg/l Experimental result, Key study

Aquatic Invertebrates

Product: No data available.

Components:

Naphtha, (Petroleum),

Hydrotreated Light

EC 50 (Daphnia magna, 48 h): 4.5 mg/l Experimental result, Key study

2-Propanone LC 50 (Daphnia pulex, 48 h): 8,800 mg/l Experimental result, Key study

Butane LC 50 (Daphnia sp., 48 h): 69.43 mg/l QSAR QSAR, Key study

Benzene, methyl- LC 50 (Water flea (Daphnia magna), 48 h): 54.6 - 174.7 mg/l Mortality

LC 50 (Ceriodaphnia dubia, 2 d): 3.78 mg/l Experimental result, Key study

Ligroine EC 50 (Daphnia magna, 48 h): 4.5 mg/l Experimental result, Key study

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Components:

Naphtha, (Petroleum), Hydrotreated Light NOAEL (Daphnia magna): 2.6 mg/l Other, Key study

Benzene, methyl- NOAEL (Oncorhynchus kisutch): 1.39 mg/l Experimental result, Key study

LOAEL (Oncorhynchus kisutch): 2.77 mg/l Experimental result, Key study

Distillates (petroleum), hydrotreated light

NOAEL (Oncorhynchus mykiss): 0.098 mg/l QSAR QSAR, Key study

Ligroine NOAEL (Daphnia magna): 2.6 mg/l Other, Key study

Aquatic Invertebrates

Product: No data available.



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Components:

Naphtha, (Petroleum), Hydrotreated Light

EC 50 (Daphnia magna): 10 mg/l Experimental result, Key study

2-Propanone LOAEL (Daphnia magna): 2,212 mg/l Experimental result, Key study

NOAEL (Daphnia magna): 2,212 mg/l Experimental result, Key study

Benzene, methyl-LOAEL (Ceriodaphnia dubia): 2.76 mg/l Experimental result, Key study

NOAEL (Ceriodaphnia dubia): 0.74 mg/l Experimental result, Key study

Ligroine NOAEL (Daphnia magna): 2.6 mg/l Experimental result, Key study

Toxicity to Aquatic Plants

Product:

No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

Components:

Naphtha, (Petroleum),

95 % (10 d) The 10-day window requirement is fulfilled. **Hydrotreated Light**

90.35 % (28 d) Detected in water. Experimental result, Supporting study

2-Propanone 90.9 % (28 d) Detected in water. Experimental result, Key study

Propane 100 % (385.5 h) Detected in water. Experimental result, Key study

50 % (3.19 d) Detected in water. QSAR, Weight of Evidence study

Butane 100 % (385.5 h) Detected in water. Experimental result, Key study

Benzene, methyl-100 % (14 d) Detected in water. Experimental result, Weight of Evidence

86 % Detected in water. Experimental result, Weight of Evidence study

Distillates (petroleum),

hydrotreated light

61 % Detected in water. Experimental result, Supporting study

Cyclohexane, methyl-> 0 % (28 d) Detected in water. Experimental result, Weight of Evidence

study

> 0 % (28 d) Detected in water. Experimental result, Weight of Evidence

study

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Components:

Naphtha, (Petroleum), **Hydrotreated Light**

Bioconcentration Factor (BCF): 10 - 2,500 Aquatic sediment Estimated by

calculation, Key study

Haddock, adult, Bioconcentration Factor (BCF): 0.69 Aguatic sediment 2-Propanone

Experimental result, Not specified

Benzene, methyl-Leuciscus idus, Bioconcentration Factor (BCF): 90 Aquatic sediment

Experimental result, Key study



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Ligroine Bioconcentration Factor (BCF): 10 - 2,500 Aquatic sediment Estimated by

calculation, Key study

Cyclohexane, methyl- Cyprinus carpio, Bioconcentration Factor (BCF): > 95 - < 321 Aquatic

sediment Experimental result, Key study

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Components:

Naphtha, (Petroleum),

Log Kow: > 2.4 - < 5.7 23 °C Yes Experimental result, Key study

Hydrotreated Light

Mobility in soil: No data available.

Components:

Naphtha, (Petroleum), Hydrotreated Light No data available. 2-Propanone No data available. Propane No data available. Butane No data available. Heptane No data available. Benzene, methyl-No data available. Distillates (petroleum), hydrotreated light No data available. No data available. Ligroine Molybdenum sulfide (MoS2) No data available. Cyclohexane, methyl-No data available.

Other adverse effects: Toxic to aquatic life with long lasting effects.

13. Disposal considerations

Disposal instructions: Discharge, treatment, or disposal may be subject to national, state, or local

laws.

Contaminated Packaging: No data available.

14. Transport information

DOT

UN Number: UN 1950

UN Proper Shipping Name: Aerosols, flammable

Transport Hazard Class(es)

Class: 2.1 Label(s): -

EmS No.:

Packing Group: -

Special precautions for user: None known.

IATA

UN Number: UN 1950

UN Proper Shipping Name: Aerosols, flammable

Transport Hazard Class(es):

Class: 2.1
Label(s): Packing Group: -

Special precautions for user: None known.

Other information

Passenger and cargo aircraft: Allowed. 203 Cargo aircraft only: Allowed. 203



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IMDG

UN Number: UN 1950

UN Proper Shipping Name: Aerosols, flammable

Transport Hazard Class(es)

Class: 2.1 Label(s): -

EmS No.: F-D, S-U

Packing Group:

Special precautions for user: None known.

The classification shown in this section may be eligible for use of an exception, such as "Limited Quantity", per the dangerous goods regulations. The shipper of this product should consult the applicable mode's regulation for the UN number displayed above to determine if any exceptions are available and may be utilized, at the shipper's discretion.

15. Regulatory information

US Federal Regulations

Restrictions on use: Not known.

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

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

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

<u>Chemical Identity</u> <u>OSHA hazard(s)</u>

Crystalline Silica lung effects

immune system effects

Cancer

kidney effects Benzene Flammability

> Cancer Aspiration Eye

Blood Skin

respiratory tract irritation Central nervous system

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity

2-Propanone

ACETONE

UNLISTED HAZARDOUS WASTES CHARACTERISTIC OF IGNITABILITY

RCRA HAZARDOUS WASTE NO. D001

BENZENE, METHYL-

Distillates (petroleum), hydrotreated light

HEXANE

Hexane

CYCLOHEXANE

BENZENE, HEXAHYDRO-

ETHYLBENZENE

BENZENE



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Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Flammable (gases, aerosols, liquids, or solids), Skin Corrosion or Irritation, Serious eye damage or eye irritation, Reproductive toxicity, Specific target organ toxicity (single or repeated exposure), Aspiration Hazard

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

None present or none present in regulated quantities.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

<u>Chemical Identity</u> <u>% by weight</u>

Benzene, methyl- 1.0%

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

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

US State Regulations

US. California Proposition 65



WARNING: This product can expose you to chemicals including, Benzene which is [are] known to the State of California to cause cancer and birth defects or other reproductive harm.

This product can expose you to chemicals including, Benzene, ethyl-Crystalline Silica which is [are] known to the State of California to cause cancer.

This product can expose you to chemicals including, Benzene, methyl-Hexane which is [are] known to the State of California to cause birth defects or other reproductive harm.

For more information go to www.P65Warnings.ca.gov.

US. New Jersey Worker and Community Right-to-Know Act Chemical Identity

Naphtha, (Petroleum), Hydrotreated Light

2-Propanone

Propane

Butane

Heptane

Benzene, methyl-

Distillates (petroleum), hydrotreated light

Ligroine

Cyclohexane, methyl-

US. Massachusetts RTK - Substance List Chemical Identity

Crystalline Silica

Benzene



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US. Pennsylvania RTK - Hazardous Substances Chemical Identity

Naphtha, (Petroleum), Hydrotreated Light

2-Propanone

Propane

Butane

Heptane

Benzene, methyl-

Distillates (petroleum), hydrotreated light

Ligroine

Cyclohexane, methyl-

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

International regulations

Montreal protocol

2-Propanone

Distillates (petroleum), hydrotreated light

Stockholm convention

2-Propanone

Distillates (petroleum), hydrotreated light

Rotterdam convention

2-Propanone

Distillates (petroleum), hydrotreated light

Kyoto protocol

Japan (ENCS) List

Inventory Status:

Australia AICS Not in compliance with the inventory.

Canada DSL Inventory List On or in compliance with the inventory

Canada NDSL Inventory Not in compliance with the inventory.

Ontario Inventory Not in compliance with the inventory.

China Inv. Existing Chemical Substances Not in compliance with the inventory.

Not in compliance with the inventory.

Japan ISHL Listing Not in compliance with the inventory.

Japan Pharmacopoeia Listing

Not in compliance with the inventory.

Korea Existing Chemicals Inv. (KECI)

Not in compliance with the inventory.

Mexico INSQ Not in compliance with the inventory.

New Zealand Inventory of Chemicals

Not in compliance with the inventory.

Philippines PICCS Not in compliance with the inventory.

Taiwan Chemical Substance Inventory

Not in compliance with the inventory.

US TSCA Inventory

On or in compliance with the inventory

EINECS, ELINCS or NLP Not in compliance with the inventory.



Revision Date: 03/29/2022

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

Issue Date: 03/29/2022

Revision Information: No data available.

Version #: 1.1

Further Information: No data available.

Disclaimer: This information is provided without warranty. The information is believed to

be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.