

FJC, Inc.

## SAFETY DATA SHEET

A/C FLUSH SOLVENT

### **1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

FJC, Inc. 704-664-3587  
PO Box 499  
Mount Mourne, NC 28123

Product Code 2405, 2406  
Product name A/C FLUSH SOLVENT

### **2 HAZARDS IDENTIFICATION**

Appearance: liquid. Colourless, clear

CAUTION! COMBUSTIBLE LIQUID AND VAPOR. MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. PROLONGED OR REPEATED CONTACT MAY DRY THE SKIN AND CAUSE IRRITATION AND BURNS.

#### **Potential Health Effects**

#### **Exposure routes**

Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

#### **Eye contact**

May cause mild eye irritation. Symptoms include stinging, tearing, and redness.

#### **Skin contact**

May cause mild skin irritation. Symptoms may include redness and burning of skin. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, and drying and cracking of skin, skin burns, and other skin damage.

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#### **Ingestion**

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

#### **Inhalation**

It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

#### **Aggravated Medical Condition**

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material:, Skin

#### **Symptoms**

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:, stomach or intestinal upset (nausea, vomiting, diarrhea), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness)

#### **Target Organs**

Exposure to this material (or a component) has been found to cause kidney damage in male rats. The mechanism by which this toxicity occurs is specific to the male rat and the kidney effects are not expected to occur in humans.

#### **Carcinogenicity**

This product (or a component) is a petroleum-derived material. Similar materials and certain compounds occurring naturally in petroleum oils have been shown to cause skin cancer in laboratory animals following repeated exposure without washing or removal.

#### **Reproductive hazard**

Based on the available information, risk to the fetus from maternal exposure to this material cannot be assessed.

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| <b>Hazardous Components</b>                  | <b>CAS-No.</b> | <b>Concentration</b> |
|--|----------------|----------------------|
| SOLVENT NAPHTHA (PEIROLEUM), HEAVY ALIPHATIC | 64742-96-7     | <=100%               |

**4. FIRST AID MEASURES****Eyes**

If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

**Skin**

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

**Ingestion**

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

**Inhalation**

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

**Notes to physician**

**Hazards:** No information available.

**Treatment:** No information available.

**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

Dry chemical, Carbon dioxide (CO<sub>2</sub>), Water spray

**Hazardous combustion products**

Aldehyde, carbon dioxide and carbon monoxide, Hydrocarbons

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### **Precautions for fire-fighting**

If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes.

### **NFPA Flammable and Combustible Liquids Classification**

Combustible Liquid Class IIIA

## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions**

For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Ensure adequate ventilation. Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Pay attention to the spreading of gases especially at ground level (heavier than air) and to the direction of the wind.

### **Environmental precautions**

Prevent spreading over a wide area (e.g. by containment or oil barriers). Do not let product enter drains. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

### **Methods for cleaning up**

Contain spillage, and then collect 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).

### **Other information**

Comply with all applicable federal, state, and local regulations. Suppress (knock down) gases/vapours/mists with a water spray jet.

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### **7. HANDLING AND STORAGE**

#### **Handling**

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Static ignition hazard can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77. Warning. Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignitions without the presence of obvious ignition sources. Published "autoignition" or "ignition" temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Any use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions.

#### **Storage**

Store in a cool, dry, ventilated area.

### **8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **Exposure Guidelines**

Contains no substances with occupational exposure limit values.

#### **General advice**

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

#### **Exposure controls**

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects

#### **Eye protection**

Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

#### **Skin and body protection**

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**Skin and body protection**

Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use. Wear resistant gloves (consult your safety equipment supplier).

**Respiratory protection**

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

|   |  |
|---|--|
| Physical state                              | liquid   |
| Form  | no data available  |
| Colour                                      | colourless clear, colourless   |
| Odour                                       | oilyhydrocarbon-like   |
| Bolling point/bolling range                 | 354-417.0 °F /179-213.9 °C   |
| Melting point/range                         | -45 °F /-43 °C   |
| Sublimation point                           | no data available  |
| pH  | no data available  |
| Flash point                                 | 176 °F /80 °C Tag closed cup   |
| Ignition temperature                        | no data available  |
| Evaporation rate                            | (<)0.1 n-Butyl Acetate   |
| Lower explosion limit/Upper explosion limit | 0.7 %(V) /6 %(V)   |
| Particle size                               | no data available  |
| Vapour pressure                             | 0.010 mmHg @ 68 °F /20 °C  |
| Relative vapour density                     | (>)1 AIR=1   |
| Density                                     | 0.821 g/cm <sup>3</sup> @ 68 °F/20 °C<br>6.7 lb/gal @ 60.1 °F/15.6 °C<br>No data |
| Bulk density                                | negligible   |
| Water solubility                            | no data available  |
| Solubility(ies)                             | no data available  |
| Partition coefficient: n-octanol/water      |  |

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|                           |                        |
|---------------------------|------------------------|
| log Pow                   | no data available      |
| Autoignition temperature  | 455-599 °F /235-315 °C |
| Viscosity, dynamic        | no data available      |
| Viscosity, kinematic      | no data available      |
| Solids in Solution        | no data available      |
| Decomposition temperature | no data available      |
| Burning number            | no data available      |
| Dust explosion constant   | no data available      |
| Minimum ignition energy   | no data available      |

**10. STABILITY AND REACTIVITY****Stability**

Stable.

**Conditions to avoid**

Heat, flames and sparks.

**Incompatible products**

Strong oxidizing agents, strong reducing agents

**Hazardous decomposition products**

Aldehydes, carbon dioxide and carbon monoxide, Hydrocarbons

**Hazardous reactions**

Product will not undergo hazardous polymerization.

**Thermal decomposition**

No data

**11. TOXICOLOGICAL INFORMATION**

|                                  |                          |
|----------------------------------|--------------------------|
| <b>Acute oral toxicity</b>       | LD 50 Rat : > 5 g/kg     |
| <b>Acute inhalation toxicity</b> | LC 50 Rat: > 5 mg/l; 4 h |
| <b>Acute dermal toxicity</b>     | LD 50 Rat: > 2,000 mg/kg |

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**12. ECOLOGICAL INFORMATION****Biodegradability**

SOLVENT NAPHTHA (PETROLEUM), HEAVY ALIPHATIC no data available

**Bioaccumulation**

SOLVENT NAPHTHA (PETROLEUM), HEAVY ALIPHATIC no data available

**Ecotoxicity effects****Toxicity to fish**

SOLVENT NAPHTHA (PETROLEUM), HEAVY ALIPHATIC no data available

**Toxicity to daphnia and other aquatic invertebrates.**

SOLVENT NAPHTHA (PETROLEUM), HEAVY ALIPHATIC no data available

**Toxicity to algae**

SOLVENT NAPHTHA (PETROLEUM), HEAVY ALIPHATIC no data available

**Toxicity to bacteria**

SOLVENT NAPHTHA (PETROLEUM), HEAVY ALIPHATIC no data available

**Biochemical Oxygen Demand (BOD)**

SOLVENT NAPHTHA (PETROLEUM), HEAVY ALIPHATIC no data available

**Chemical Oxygen Demand (COD)**

SOLVENT NAPHTHA (PETROLEUM), HEAVY ALIPHATIC no data available

**Additional ecological Information**

SOLVENT NAPHTHA (PETROLEUM), HEAVY ALIPHATIC no data available



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**13. DISPOSAL CONSIDERATION**

**Waste disposal methods**

Dispose of in accordance with all applicable local, state and federal regulations.

**14. TRANSPORT INFORMATION**

**REGULATION**

| ID NUMBER | PROPER SHIPPING NAME | *HAZARD CLASS | SUBSIDIARY HAZARDS | PACKING GROUP | MARINE POLLUTANT /LTD.QTY. |
|-----------|----------------------|---------------|--------------------|---------------|----------------------------|
|-----------|----------------------|---------------|--------------------|---------------|----------------------------|

**MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES**

1993 Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

1993 Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

1993 Not dangerous goods

**INTERNATIONAL MARITIME DANGEROUS GOODS**

Not dangerous goods

**TRANSPORT CANADA – INLAND AND WATERWAYS**

Not dangerous goods

**TRANSPORT CANADA - RAIL**

Not dangerous goods

**TRANSPORT CANADA - ROAD**

Not dangerous goods

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**U.S. DOT – INLAND WATERWAYS**

|    |   |     |     |
|----|---|-----|-----|
| NA | Combustible liquid, n.o.s.<br>(HYDROTREATED<br>PETROLEUM DISTILLATES) | CBL | III |
|----|---|-----|-----|

**U.S.DOT- RAIL**

|    |   |     |     |
|----|---|-----|-----|
| NA | Combustible liquid, n.o.s.<br>(HYDROTREATED<br>PETROLEUM DISTILLATES) | CBL | III |
|----|---|-----|-----|

**U.S.DOT- ROAD**

|    |   |     |     |
|----|---|-----|-----|
| NA | Combustible liquid, n.o.s.<br>(HYDROTREATED<br>PETROLEUM DISTILLATES) | CBL | III |
|----|---|-----|-----|

\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

**15. REGULATORY INFORMATION**

California Prop.65

|  |  |
|--|--|
| This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm. |  |
|--|--|

**SARA Hazard Classification**

Fire Hazard

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**New Jersey RTK Label Information**

SOLVENTNAPHTHA (PETROLEUM), HEAVY ALIPHATIC

64742-96-7

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**Pennsylvania RTK Label Information**

SOLVENT NAPIITHA (PEIROLEUM), HEAVY ALIPHATIC

64742-96-7

**Notification status**

|   |                      |
|---|----------------------|
| Australia. Industrial Chemical (Notification and Assessment) Act  | y (positive listing) |
| Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133) | y (positive listing) |
| China. Inventory of Existing Chemical Substances  | y (positive listing) |
| EU.EINECS   | y (positive listing) |
| Korea. Toxic Chemical Control Law (TCCL) List   | y (positive listing) |
| Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act                                       | y (positive listing) |
| New Zealand. Composite List of Single Component Substances to be considered for Transfer                            | y (positive listing) |
| US. Toxic Substances Control Act  | y (positive listing) |
| New Zealand. Inventory of Chemicals (NZioC), as published by ERMA New Zealand                                       | y (positive listing) |
| US. Toxic Substances Control Act  | y (positive listing) |
| New Zealand. Inventory of Chemicals (NZioC), as published by ERMA New Zealand                                       | y (positive listing) |
| Japan. Kashin-Hou Law List  | y (positive listing) |
| Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act                                       | y (positive listing) |

|                  | HMIS | NFPA |
|------------------|------|------|
| Health           | 1    | 1    |
| Flammability     | 2    | 2    |
| Physical hazards | 0    |      |
| Instability      |      | 0    |
| Specific Hazard  | --   | --   |

**16. OTHER INFORMATION**

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

