# Safety Data Sheet

**Issue Date:** 05-May-2016 **Revision Date:** 09-May-2016 **Version** 1

## 1. IDENTIFICATION

**Product Identifier**

**Product Name** IPEX DURAPLUS Low-VOC MEK Cleaner

**Other means of identification**

**SDS #** AAC-011R

**Product Code** DURAPLUS MEK Cleaner

**UN/ID No** UN1993

**Recommended use of the chemical and restrictions on use**

**Recommended Use** DURAPLUS pipe and fitting cleaner.

**Details of the supplier of the safety data sheet**

**Supplier Address**

IPEX USA LLC
10100 Rodney Street
Pineville, NC 28134
Ph: 704-889-2431

**Emergency Telephone Number**

**Emergency Telephone (24 hr)** INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Appearance** Clear liquid **Physical state** Liquid **Odor** Ether-like

**Classification**

| | |
|---|---|
| Serious eye damage/eye irritation | Category 2 |
| Specific target organ toxicity (single exposure) | Category 3 |
| Flammable Liquids | Category 2 |

**Hazards Not Otherwise Classified (HNOC)**

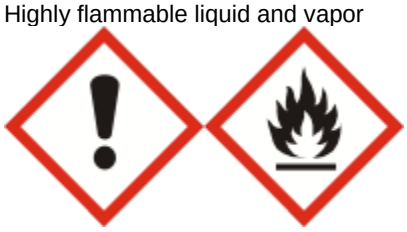
May be harmful if swallowed

**Signal Word**

**Danger**

**Hazard statements**

Causes serious eye irritation
May cause drowsiness or dizziness
Highly flammable liquid and vapor



**Precautionary Statements - Prevention**
Wash face, hands and any exposed skin thoroughly after handling
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Wear protective gloves/protective clothing/eye protection/face protection
Keep cool

**Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a poison center or doctor/physician
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a poison center or doctor/physician if you feel unwell
IN CASE OF FIRE: Use CO2, dry chemical, or foam for extinction

**Precautionary Statements - Storage**
Store in a well-ventilated place. Keep container tightly closed
Store locked up

**Precautionary Statements - Disposal**
Dispose of contents/container to an approved waste disposal plant

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No | Weight-% |
|---|---|---|
| Methyl ethyl ketone | 78-93-3 | Proprietary |
| Acetone | 67-64-1 | Proprietary |

**If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

## 4. FIRST-AID MEASURES

**First Aid Measures**

**General Advice** — If exposed or concerned: Get medical advice/attention.

**Eye Contact** — Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get immediate medical advice/attention.

**Skin Contact** — Wash with soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

**Inhalation** — Remove to fresh air. If symptoms persist, call a physician. If breathing is difficult, administer oxygen; seek medical attention immediately.

**Ingestion** Rinse mouth. If drowsy or unconscious, do not give anything by mouth; place individual on the left side with head down. Do not induce vomiting. Call a physician or Poison Control Center.

**Most important symptoms and effects**

**Symptoms** Direct eye contact may cause stinging, tearing and redness. May cause dermatitis or irritation in some individuals upon prolonged contact. May include redness, drying and cracking of skin. Prolonged breathing of vapors may cause nausea, headache, weakness and/or dizziness. Long term overexposure may cause liver and kidney damage.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Individuals with chronic respiratory, skin, kidney, or liver disorders may be at increased risk from exposure.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**
Foam. Carbon dioxide (CO2). Dry chemical.

**Unsuitable Extinguishing Media** Not determined.

**Specific Hazards Arising from the Chemical**
Class IB Flammable Liquid. Combustion products may be toxic. Vapors may travel to source of ignition and flash back.

**Hazardous Combustion Products** Carbon oxides. Hydrocarbons.

**Explosion Data**
**Protective equipment and precautions for firefighters**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Persons not wearing proper personal protective equipment should be excluded from area of spill.

**Environmental precautions**

**Environmental precautions** Prevent runoff to sewers, streams, and other bodies of water. See Section 12 for additional Ecological Information.

**Methods and material for containment and cleaning up**

**Methods for Containment** Stop spill at source.

**Methods for Clean-Up** Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal. Spills and releases may have to be reported to Federal and/or local authorities. See section 15.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on Safe Handling** Wash thoroughly after handling. Avoid breathing vapors or mists. Use only in well-ventilated areas. Use personal protection recommended in Section 8. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Use spark-proof tools and explosion-proof equipment. Ground/bond container and receiving equipment. Take precautionary measures against static discharges. Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, solid) all hazard precautions given in the data sheet must be observed. Avoid contact with skin, eyes or clothing.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Store containers upright. Store away from sources of ignition.

**Incompatible Materials** Oxidizers. Acids. Bases.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|---|---|---|
| Methyl ethyl ketone<br>78-93-3 | STEL: 300 ppm<br>TWA: 200 ppm | TWA: 200 ppm<br>TWA: 590 mg/m$^3$<br>(vacated) TWA: 200 ppm<br>(vacated) TWA: 590 mg/m$^3$<br>(vacated) STEL: 300 ppm<br>(vacated) STEL: 885 mg/m$^3$ | IDLH: 3000 ppm<br>TWA: 200 ppm<br>TWA: 590 mg/m$^3$<br>STEL: 300 ppm<br>STEL: 885 mg/m$^3$ |
| Acetone<br>67-64-1 | STEL: 500 ppm<br>TWA: 250 ppm | TWA: 1000 ppm<br>TWA: 2400 mg/m$^3$<br>(vacated) TWA: 750 ppm<br>(vacated) TWA: 1800 mg/m$^3$<br>(vacated) STEL: 2400 mg/m$^3$<br>The acetone STEL does not apply to the cellulose acetate fiber industry. It is in effect for all other sectors<br>(vacated) STEL: 1000 ppm | IDLH: 2500 ppm<br>TWA: 250 ppm<br>TWA: 590 mg/m$^3$ |

**Appropriate engineering controls**

**Engineering Controls** Ventilation systems. Eyewash stations. Showers. Mechanical exhaust (explosion proof) may be required.

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

**Eye/Face Protection** Splash goggles or safety glasses.

**Skin and Body Protection** Rubber gloves. Wear protective clothing appropriate for task (coveralls, apron, Tyvek suit).

**Respiratory Protection** Not required with normal usage. Wear approved respirator in confined spaces or limited ventilation.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

| | | | |
|---|---|---|---|
| **Physical state** | Liquid | | |
| **Appearance** | Clear liquid | **Odor** | Ether-like |
| **Color** | Clear | **Odor Threshold** | 0.88 ppm |

| **Property** | **Values** | **Remarks • Method** |
|---|---|---|
| **pH** | Not available | |
| **Melting Point/Freezing Point** | -95 °C / -139 °F | |
| **Boiling Point/Boiling Range** | 56 °C / 133 °F | |
| **Flash Point** | -20 °C / -4 °F | |
| **Evaporation Rate** | > 1.0 | (butyl acetate = 1) |
| **Flammability (Solid, Gas)** | n/a-liquid | |
| **Flammability Limits in Air** | | |
| **Upper Flammability Limits** | 12.8% | |
| **Lower Flammability Limit** | 1.1% | |
| **Vapor Pressure** | 145 mm Hg | @ 20°C (68°F) |
| **Vapor Density** | > 2.0 | (Air=1) |
| **Relative Density** | 0.80 | |
| **Water Solubility** | Negligible | |
| **Solubility in other solvents** | Not determined | |
| **Partition Coefficient** | Not determined | |
| **Auto-ignition Temperature** | 465 °C / 869 °F | |
| **Decomposition Temperature** | Not determined | |
| **Kinematic Viscosity** | Not determined | |
| **Dynamic Viscosity** | Water thin | |
| **Explosive Properties** | Not determined | |
| **Oxidizing Properties** | Not determined | |

**Other Information**

**VOC Content** Maximum VOC emission when applied and tested per SCAQMD Rule 1168, Test Method 316A is 490 g/L

## 10. STABILITY AND REACTIVITY

**Reactivity**
Not reactive under normal conditions.

**Chemical Stability**
Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**
None under normal processing.

**Hazardous Polymerization** Hazardous polymerization does not occur.

**Conditions to Avoid**
Avoid heat, sparks, open flames and other ignition sources.

**Incompatible Materials**
Oxidizers. Acids. Bases.

**Hazardous Decomposition Products**
Carbon oxides. Hydrogen chloride. Hydrocarbons.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Product Information**

**Eye Contact** Causes serious eye irritation.

**Skin Contact** Avoid contact with skin. Prolonged contact may cause redness and irritation.

**Inhalation** May cause respiratory irritation.

**Ingestion** May be harmful if swallowed.

**Component Information**

| Chemical Name | ATEmix (oral) | ATEmix (dermal) | Inhalation LC50 |
|---|---|---|---|
| Methyl ethyl ketone<br>78-93-3 | = 2483 mg/kg ( Rat ) = 2737 mg/kg ( Rat ) | = 6480 mg/kg ( Rabbit ) = 5000 mg/kg ( Rabbit ) | = 11700 ppm ( Rat ) 4 h |
| Acetone<br>67-64-1 | = 5800 mg/kg ( Rat ) | - | = 50100 mg/m$^3$ ( Rat ) 8 h |

**Information on physical, chemical and toxicological effects**

**Symptoms** Please see section 4 of this SDS for symptoms.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Carcinogenicity** Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

**STOT - single exposure** May cause respiratory irritation. May cause drowsiness or dizziness.

**Numerical measures of toxicity**

**The following values are calculated based on chapter 3.1 of the GHS document** .

**ATEmix (oral)** 2,716.00 mg/kg
**ATEmix (dermal)** 5,882.00 mg/kg
**ATEmix (inhalation-dust/mist)** 668.00 mg/L
**ATEmix (inhalation-vapor)** 40.59 mg/L

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

| Chemical Name | Algae/aquatic plants | Fish | Crustacea |
|---|---|---|---|
| Methyl ethyl ketone<br>78-93-3 | | 3130 - 3320: 96 h Pimephales promelas mg/L LC50 flow-through | 5091: 48 h Daphnia magna mg/L EC50 520: 48 h Daphnia magna mg/L EC50 4025 - 6440: 48 h Daphnia magna mg/L EC50 Static |
| Acetone<br>67-64-1 | | 4.74 - 6.33: 96 h Oncorhynchus mykiss mL/L LC50 6210 - 8120: 96 h Pimephales promelas mg/L LC50 static 8300: 96 h Lepomis macrochirus mg/L LC50 | 10294 - 17704: 48 h Daphnia magna mg/L EC50 Static 12600 - 12700: 48 h Daphnia magna mg/L EC50 |

**Persistence/Degradability**

Not determined.

**Bioaccumulation**
Not determined.

**Mobility**

| Chemical Name | Partition Coefficient |
|---|---|
| Methyl ethyl ketone<br>78-93-3 | 0.29 |
| Acetone<br>67-64-1 | -0.24 |

**Other Adverse Effects**
Not determined

## 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods**

**Disposal of Wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**US EPA Waste Number**

| Chemical Name | RCRA | RCRA - Basis for Listing | RCRA - D Series Wastes | RCRA - U Series Wastes |
|---|---|---|---|---|
| Methyl ethyl ketone<br>78-93-3 | U159 | Included in waste streams:<br>F005, F039 | 200.0 mg/L regulatory level | U159 |
| Acetone<br>67-64-1 | | Included in waste stream:<br>F039 | | U002 |

**California Hazardous Waste Status**

| Chemical Name | California Hazardous Waste Status |
|---|---|
| Methyl ethyl ketone<br>78-93-3 | Toxic<br>Ignitable |
| Acetone<br>67-64-1 | Ignitable |

## 14. TRANSPORT INFORMATION

**Note** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT**
**UN/ID No** UN1993
**Proper Shipping Name** Flammable liquid, n.o.s. (Methyl ethyl ketone, Acetone)
**Hazard Class** 3
**Packing Group** II

**IATA**
**UN/ID No** UN1993
**Proper Shipping Name** Flammable liquid, n.o.s. (Methyl ethyl ketone, Acetone)
**Hazard Class** 3
**Packing Group** II

**IMDG**

| | |
|---|---|
| **UN/ID No** | UN1993 |
| **Proper Shipping Name** | Flammable liquid, n.o.s. (Methyl ethyl ketone, Acetone) |
| **Hazard Class** | 3 |
| **Packing Group** | II |

## 15. REGULATORY INFORMATION

**International Inventories**

| Chemical Name | TSCA | DSL/NDSL | EINECS/ELINCS | ENCS | IECSC | KECL | PICCS | AICS |
|---|---|---|---|---|---|---|---|---|
| Methyl ethyl ketone | X | X | X | Present | X | Present | X | X |
| Acetone | X | X | X | Present | X | Present | X | X |

**Legend:**

***TSCA*** *- United States Toxic Substances Control Act Section 8(b) Inventory*

***DSL/NDSL*** *- Canadian Domestic Substances List/Non-Domestic Substances List*

***EINECS/ELINCS*** *- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

***ENCS*** *- Japan Existing and New Chemical Substances*

***IECSC*** *- China Inventory of Existing Chemical Substances*

***KECL*** *- Korean Existing and Evaluated Chemical Substances*

***PICCS*** *- Philippines Inventory of Chemicals and Chemical Substances*

***AICS*** *- Australian Inventory of Chemical Substances*

**US Federal Regulations**

**CERCLA**

| Chemical Name | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ) |
|---|---|---|---|
| Methyl ethyl ketone<br>78-93-3 | 5000 lb | | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |
| Acetone<br>67-64-1 | 5000 lb | | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|---|---|---|---|
| Methyl ethyl ketone<br>78-93-3 | X | X | X |
| Acetone<br>67-64-1 | X | X | X |

## 16. OTHER INFORMATION

| | | | | |
|---|---|---|---|---|
| **NFPA** | **Health Hazards** | **Flammability** | **Instability** | **Special Hazards** |
| | 2 | 3 | 1 | None |
| **HMIS** | **Health Hazards** | **Flammability** | **Physical hazards** | **Personal Protection** |
| | 2 | 3 | 1 | B |

**Issue Date:** 05-May-2016
**Revision Date:** 09-May-2016
**Revision Note:** New format

**Disclaimer**

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

**End of Safety Data Sheet**