

SAFETY DATA SHEET

GHS format

SECTION 1 IDENTIFICATION**Product Name:** FAST® Parts FAST Flush Cleaning Fluid**Product Number(s):** FPC4516, FPC4516-6**Product Use:** Cleaning solvent**Restrictions on use:** None known**Distributed by:** FAST Parts, a Division of International Comfort Product, Smyrna, TN**Manufactured by:** North American Research Corporation

P.O. Box 1318

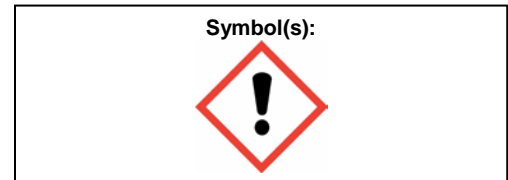
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Telephone Numbers: (972) 492-1800, (800) 527-7520, Fax (972) 394-6755**Emergencies:** Infotrac (24 hours, everyday) (800) 535-5053 (US & Canada) 1 (352) 323-3500 (International)**SECTION 2 HAZARD(S) IDENTIFICATION**

Classification	Category
Acute toxicity, oral	4
Acute toxicity, inhalation	4
Aquatic toxicity, chronic	3

**Signal Word:** Warning**Hazard statement(s):** Harmful if swallowed. Harmful if inhaled. Harmful to aquatic life with long lasting effects.**Precaution(s):** Avoid breathing mist, vapors, or spray. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wash hands and face thoroughly after handling. Wear protective gloves, protective clothing, and eye and face protection.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

IF SWALLOWED: Immediately call a poison center/doctor. Do NOT induce vomiting. Rinse mouth.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

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 exposed or concerned: Get medical advice/attention.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other Hazards: None determined.**SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

Ingredient Name	CAS Registry No.	Weight %
trans-1,2-dichloroethylene	156-60-5	30-60
1,1,1,2,3,4,4,5,5,5-decafluoropentane	138495-42-8	30-60
1,1,1,3,3-pentafluorobutane	406-58-6	10-30

If the specific chemical identity and/or the exact percentage of an ingredient is not specified, the information has been withheld as a trade secret.

SECTION 4 FIRST-AID MEASURES**Eye contact:** 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.**Inhalation** IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.**Skin contact:** IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.**Ingestion:** IF SWALLOWED: Immediately call a poison center/doctor. Do NOT induce vomiting. Rinse mouth.**Most important symptoms/effects:** Irritation, headache, dizziness, nausea.**Indication of immediate medical attention and special treatment needed, if necessary:****Notes to physician:** Treat symptomatically.**Specific treatments:** Show this safety data sheet to the doctor in attendance.**SECTION 5 FIRE-FIGHTING MEASURES****Suitable (and unsuitable) extinguishing media:**

Water spray. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Specific hazards arising from the chemical:

Contents under pressure. Pressurized container may explode when heated.

Special protective equipment for fire-fighters: Use appropriate equipment for surrounding fire.**SECTION 6 ACCIDENTAL RELEASE MEASURES**

Personal precaution, protective equipment and emergency procedures: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate personal protective equipment. Ensure adequate ventilation. See Section 8 of the SDS for Personal Protective Equipment.

Methods and materials for containment and cleaning-up:

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk.

Environmental precautions:

Avoid discharge into drains, water courses or onto the ground.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling: Do not re-use empty containers. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities: KEEP OUT OF REACH OF CHILDREN. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not handle or store near an open flame, heat or other sources of ignition. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical name	CAS	OSHA PEL	ACGIH TLV	NIOSH REL
trans-1,2-dichloroethylene	156-60-5	TWA: 200 ppm 790 mg/m ³	TWA: 200 ppm	—

Appropriate engineering controls: Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Individual protection measures (PPE):

Consult supervisor for special handling instructions. Avoid contact with eyes. Avoid contact with skin. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

Eye protection: Wear safety glasses with side shields. If splash potential exists, wear full face shield or chemical goggles.

Hand protection: Wear suitable protective gloves.

Skin and body protection: If major exposure is possible, wear suitable protective clothing and footwear.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be implemented whenever workplace conditions warrant use of a respirator.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colorless liquid	U/L flammability or explosive limits	10 / 6.5%
Odor	Slight ether	Vapor pressure	6.5 kPa @ 25°C
Odor threshold	Not determined	Vapor density	4.0 (Air = 1)
pH	Not applicable	Relative density (specific gravity)	1.32
Melting point/freezing point	Not determined	Solubility(ies)	Slightly in water
Initial boiling point and boiling range	99°F (37°C)	Partition coefficient: n-octanol/water	Not determined
Flash point	Not flammable	Auto-ignition temperature	Not determined
Evaporation rate	0.87 (n-butyl acetate = 1)	Decomposition temperature	Not determined
Flammability (solid, gas)	Not flammable	Viscosity	Not determined

SECTION 10 STABILITY AND REACTIVITY

Reactivity: No dangerous reaction known under conditions of normal use.

Chemical stability: Stable under normal temperature conditions and recommended use.

Possibility of hazardous reactions: Hazardous polymerization does not occur.

Conditions to Avoid: Heat, flames and sparks. Ignition sources. Contact with incompatible materials.

Incompatible materials: Alkali metals, powdered metal.

Hazardous decomposition products: Heating may generate the following products: Toxic and corrosive gases or vapors. Halogenated hydrocarbons. Hydrogen fluoride (HF). Carbon dioxide (CO₂). Carbon monoxide (CO).

SECTION 11 TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Ingestion: May cause discomfort if swallowed.

Inhalation: May cause drowsiness, dizziness, headache, nausea, difficulty in breathing. Vapors have a narcotic effect.

Eye contact: May cause temporary eye irritation.

Skin contact: Causes skin irritation.

Symptoms related to the physical, chemical and toxicological characteristics: Irritation. Drowsiness and dizziness.

Numerical measure of toxicity, component information:

Chemical name	CAS	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
Product ATE	mixture	1,000 mg/kg)	No data available	22.0 mg/L
trans-1,2-dichloroethylene	156-60-5	1,235 mg/kg (rat)	No data available	24,100 mg/L (rat)
1,1,1,2,3,4,4,5,5,5-decafluoropentane	138495-42-8	5,000 mg/kg (rat)	No data available	114.0 mg/L (rat)
1,1,1,3,3-pentafluorobutane	406-58-6	2,000 mg/kg (rat)	No data available	100,000.0 mg/L (rat)

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: May causes temporary eye irritation.

Respiratory sensitization: Not assigned.

Skin sensitization: Not classified as a sensitizer.

Germ cell mutagenicity: No evidence of causing genetic defects.

Carcinogenicity:

IARC: Not listed
ACGIH: Not listed
NTP: Not listed
OSHA: Not listed.

Reproductive Toxicity: No evidence of toxicity to reproduction.

Specific target organ toxicity, single exposure: May cause drowsiness or dizziness.

Specific target organ toxicity, repeated exposure: No data available.

Chronic effects: No known effects

Further information: Solvents may degrease the skin.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity:

trans-Dichloroethylene:

Fish: LC50 (Fish, 4 days): 1,350 mg/L

Aquatic Invertebrates: EC50 (Water flea (Daphnia magna), 2 d): 220 mg/L

1,1,1,2,3,4,4,5,5,5-decafluoropentane:

Fish: LC50 (Fish, 4 days): 13.9 mg/L

Aquatic Invertebrates: EC50 (Water flea (Daphnia magna), 2 d): 11.7 mg/L

Persistence and degradability: Not expected to be biodegradable.

Bioaccumulation potential: Unlikely.

Mobility in soil: This product has poor water solubility.

Other adverse effects: None known.

SECTION 13 DISPOSAL CONSIDERATIONS

Unused product: This product, as sold, if discarded or disposed, is a hazardous waste according to federal regulations. Dispose of container and contents in accordance with local, regional, national and international regulations.

RCRA Code: U079 1,2-Dichloroethylene (156-60-5)

Contaminated containers or packaging: Dispose of packaging or containers in accordance with local, regional, national and international regulations.

SECTION 14 TRANSPORT INFORMATION

Agency	Proper Shipping Name	UN Number	Packing Group	Hazard Class
DOT (ground), IMDG	Not regulated			
IATA	Not regulated			

SECTION 15 REGULATORY INFORMATION

TSCA: All components of this product are on the U.S. Toxic Substances Control Act (TSCA) Chemical Substances Inventory or are exempt.

1,1,1,2,2,3,4,4,5,5,5-DECAFLUOROPENTANE (138495-42-8) is controlled by TSCA Section 5, Significant New Use Rule (SNUR; 40 CFR 721.5645) The approved uses are: precision and general cleaning, carrier fluid, displacement drying, printed circuit board cleaning, particulate removal and film cleaning, process medium, heat transfer fluid (dielectric and non-dielectric), and test fluid. Processors and users of this substance must also comply with the applicable general SNUR requirements set forth in 40 CFR 721 subpart A, including export notification requirements if applicable (40 CFR 721.20), and the applicable record keeping requirements set forth at 40 CFR 721.125.

CERCLA: 1,2-Dichloroethylene (156-60-5); RQ 1000 lbs.

SARA TITLE III:

Section 311/312 Hazard Category:

Acute: Yes Chronic: No Fire: No Pressure: No Reactive Hazard: No

Section 313 Reportable Ingredients: No listed ingredients

CALIFORNIA (Proposition 65): No listed ingredients

SECTION 16 OTHER INFORMATION

Date Prepared: Jan. 06, 2017 **Replaces:** None (new)

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