



# C.A.T. Products, Inc. (Run-Rite)

103 Gypsum Road, Stroudsburg, PA 18360 USA  
Toll Free: 1-800-872-8921 • Phone: (570) 402-1154  
Fax: (570) 402-1153 • E-mail: [Info@Run-Rite.com](mailto:Info@Run-Rite.com)

## Safety Data Sheet

### Direct Injection Deposit Cleaner

#### SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	Direct Injection Deposit Cleaner
<b>Part number</b>	1347
<b>Product Family</b>	Mixture
<b>Recommended Use</b>	Intake valve cleaner.
<b>Restrictions on Use</b>	Not applicable.
<b>Supplier Identifier</b>	C.A.T. Products, 103 Gypsum Road, Stroudsburg, PA, 18360, 1.800.872.8921
<b>Emergency Phone No.</b>	CANUTEC, +1.613.996.6666, Operation hours: 24/7

#### SECTION 2. HAZARD IDENTIFICATION

##### Classification

Flammable aerosol - Category 1; Gas under pressure - Compressed gas; Skin irritation - Category 2; Eye irritation - Category 2A; Aspiration hazard - Category 1

##### Label Elements



Danger

Extremely flammable aerosol.  
Contains gas under pressure; may explode if heated.  
Pressurized container: may burst if heated.  
May be fatal if swallowed and enters airways.  
Causes skin irritation.  
Causes serious eye irritation.

Keep away from heat, sparks, open flames, and hot surfaces. – No smoking.  
Do not spray on an open flame or other ignition source.  
Pressurized container: Do not pierce or burn, even after use.  
Wash hands and skin thoroughly after handling.  
Wear protective gloves.  
Wear eye protection/face protection.

IF SWALLOWED: Immediately call a POISON CENTRE or doctor.  
Do NOT induce vomiting.  
IF ON SKIN: Wash with plenty of water.  
Take off contaminated clothing and wash it before reuse.

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If skin irritation occurs: Get medical advice/attention.

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.

Store locked up.

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

Store in a well-ventilated place.

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

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers
Xylene (mixed isomers)	1330-20-7	30-60	
Ethylbenzene	100-41-4	15-30	
Petroleum gases, liquefied	68476-85-7	15-30	
Methyl isobutyl carbinol	108-11-2	1-5	
Distillates (petroleum), sweetened middle	64741-86-2	1-5	
Distillates (petroleum), hydrotreated light	64742-47-8	1-5	
Isopropanol	67-63-0	1-5	
Stoddard solvent	8052-41-3	1-5	
Polyether amine	HMIRC Registry 8488	1-5	
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	0.-1.0	

## SECTION 4. FIRST-AID MEASURES

### First-aid Measures

#### Inhalation

Remove source of exposure or move to fresh air. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by Poison Centre or doctor. If breathing has stopped, trained personnel should begin rescue breathing. Get medical attention immediately.

#### Skin Contact

Take off immediately contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Immediately wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 15-20 minutes. If skin irritation occurs, get medical advice or attention.

#### Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice or attention.

#### Ingestion

Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. Drink two glasses of water. If vomiting occurs naturally, lie on your side in the recovery position. Rinse mouth with water again. Immediately call a Poison Centre or doctor.

## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

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### Suitable Extinguishing Media

Carbon dioxide or dry chemical.

### Unsuitable Extinguishing Media

Do not use a direct stream of water.

### Specific Hazards Arising from the Product

Extremely flammable liquid and vapour. Can ignite at room temperature. Releases vapour that can form explosive mixture with air. Vapours are heavier than air. May travel a considerable distance to a source of ignition and flash back to a leak or open container. Do not use on vehicles unless cool. Containers may explode if heated.

### Special Protective Equipment and Precautions for Fire-fighters

Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use extreme caution, fight fire from a safe distance or a protected location.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

### Environmental Precautions

If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas. Do not allow into any sewer, on the ground or into any waterway.

### Methods and Materials for Containment and Cleaning Up

Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Containers of this material may contain hazardous residues when "emptied".

Do not use on hot vehicles.

Eliminate heat and ignition sources such as sparks, open flames, hot surfaces and static discharge. Post "No Smoking" signs. It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling. Wear personal protective equipment to avoid direct contact with this chemical.

### Conditions for Safe Storage

Store in an area that is: cool, dry, well-ventilated. Store at temperatures not exceeding: 35°C.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Chemical Name	ACGIH® TLV®		OSHA PEL	
	TWA	STEL [C]	TWA	Ceiling
Ethylbenzene	20 ppm A3	Not established	100 ppm	Not established
Methyl isobutyl carbinol	25 ppm Skin	40 ppm	25 ppm	Not established
Xylene (mixed isomers)	100 ppm A4	150 ppm A4	435 mg/m3	Not established
Distillates (petroleum), hydrotreated light	200 mg/m3 A3	Not established	Not established	Not established
Isopropanol	200 ppm A4	400 ppm	980000 mg/m3	Not established
Stoddard solvent	100 ppm	Not established	Not established	Not established

### Appropriate Engineering Controls

Sufficient mechanical ventilation to maintain exposures below the TLV. Under normal conditions of use, general ventilation should be satisfactory. Local ventilation is recommended if the product is misted or used in a confined space

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or if the TLV is exceeded. Make up air should always be supplied to balance air exhausted. Provide eyewash in work area, if contact or splash hazard exists.

#### Individual Protection Measures

##### Eye/Face Protection

Safety glasses with side shields. Contact lenses should not be worn, they may contribute to the severity of the injury.

##### Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.  
Suitable materials are: neoprene rubber, nitrile rubber.

##### Respiratory Protection

Not normally required if product is used as directed. No specific guidelines are available.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

<b>Appearance</b>	Clear yellow Aerosol.
<b>Odour</b>	Aromatic
<b>Odour Threshold</b>	Not available
<b>pH</b>	Not applicable
<b>Melting Point/Freezing Point</b>	Not available (melting)
<b>Initial Boiling Point/Range</b>	Not available
<b>Flash Point</b>	< 22 °C (closed cup)
<b>Evaporation Rate</b>	Not available
<b>Flammability (solid, gas)</b>	Flammable aerosol
<b>Upper/Lower Flammability or Explosive Limit</b>	Not available (lower)
<b>Vapour Pressure</b>	Not available
<b>Vapour Density (air = 1)</b>	> 1
<b>Relative Density (water = 1)</b>	0.859 at 20 °C
<b>Solubility</b>	Not available in water
<b>Partition Coefficient, n-Octanol/Water (Log Kow)</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Viscosity</b>	< 14 centistokes at 40°C (kinematic)
<b>Other Information</b>	
<b>VOC %</b>	91.5 (nominal)
<b>Flame projection</b>	< 100 cm
<b>NFPA Classification</b>	Aerosol, Level 3

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions of use.

### Chemical Stability

Stable at ambient temperatures and pressures.

### Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

### Conditions to Avoid

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Open flames, sparks, static discharge, heat and other ignition sources.

#### **Incompatible Materials**

Strong oxidizing agents (e.g. perchloric acid), strong acids (e.g. hydrochloric acid).

#### **Hazardous Decomposition Products**

Carbon oxides. And other unidentified organic compounds

Reactive hydrocarbons, aldehydes.

## **SECTION 11. TOXICOLOGICAL INFORMATION**

Information presented below is for the entire product, unless otherwise specified.

#### **Likely Routes of Exposure**

Inhalation;  
Skin contact;  
Eye contact;  
Ingestion.

#### **Acute Toxicity**

<b>Chemical Name</b>	<b>LC50</b>	<b>LD50 (oral)</b>	<b>LD50 (dermal)</b>
Ethylbenzene	~ 4000 ppm (rat) (4-hour exposure)	3500 mg/kg (rat)	15380 mg/kg (rabbit)
Xylene (mixed isomers)	6350 ppm (male rat) (4-hour exposure)	3523 mg/kg (rat)	> 1700 mg/kg (rabbit)
Isopropanol	17000 ppm (rat) (4-hour exposure)	4720 mg/kg (male rat)	12890 mg/kg (rabbit)
Stoddard solvent	> 5500 mg/m <sup>3</sup> (rat) (4-hour exposure)	> 5000 mg/kg (rat)	> 3000 mg/kg (rabbit)

28% of the mixture consists of an ingredient or ingredients of unknown acute toxicity (inhalation)

28% of the mixture consists of an ingredient or ingredients of unknown acute toxicity (oral)

28% of the mixture consists of an ingredient or ingredients of unknown acute toxicity (dermal)

#### **Skin Corrosion/Irritation**

Moderate skin irritant.

#### **Serious Eye Damage/Irritation**

Moderate irritant.

#### **STOT (Specific Target Organ Toxicity) - Single Exposure**

##### **Inhalation**

(Xylene (mixed isomers)) causes harmful effects on the liver, depression of the central nervous system, harmful effects on the kidneys.

High concentrations may cause respiratory irritation and central nervous system depression with results ranging from dizziness and headache to unconsciousness.

##### **Skin Absorption**

(Xylene (mixed isomers)) may cause defatting and produce dermatitis.

##### **Ingestion**

If small amounts are swallowed not likely to cause injury.

If large amounts are swallowed can cause effects as described for inhalation.

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### Aspiration Hazard

Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

### STOT (Specific Target Organ Toxicity) - Repeated Exposure

No information was located.

### Respiratory and/or Skin Sensitization

Not known to be a respiratory sensitizer.

Not known to be a skin sensitizer.

### Carcinogenicity

Chemical Name	ACGIH®	IARC	NTP	OSHA
Ethylbenzene	A3	Group 2B	Not Listed	Not Listed
Xylene (mixed isomers)	A4	Group 3	Not Listed	Not Listed
Distillates (petroleum), hydrotreated light	A3	Group 3	Not Listed	Not Listed
Isopropanol	A4	Group 3	Not Listed	Not Listed
Petroleum gases, liquefied	Not Listed	Not Listed	Not Listed	Not Listed

Contains. (Ethylbenzene) which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans).

### Key to Abbreviations

ACGIH® = American Conference of Governmental Industrial Hygienists. A3 = Animal carcinogen. A4 = Not classifiable as a human carcinogen.

IARC = International Agency for Research on Cancer. Group 2B = Possibly carcinogenic to humans. Group 3 = Not classifiable as to its carcinogenicity to humans.

No information was located for: Development of Offspring, Sexual Function and Fertility, Effects on or via Lactation, Germ Cell Mutagenicity, Interactive Effects

## SECTION 12. ECOLOGICAL INFORMATION

This section is not required by WHMIS.

This section is not required by OSHA HCS 2012.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

Do not puncture, incinerate or expose to heat when empty.

Contents under pressure.

Dispose of in accordance with municipal, provincial/state or federal regulations.

## SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	UN1950	Aerosols	2.1	---
IMDG (Marine)	UN1950	Aerosols	2.1	---
IATA (Air)	UN1950	Aerosols, flammable	2.1	---

**Special Precautions** Not applicable

### Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

**Emergency Response Guide No.** 126 EmS F-D, S-U

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**Other Information** ICAO/IATA PI Y203/203  
Product may ship as LTD QTY if TDG, ICAO/IATA or IMDG Limited Quantity provisions are met.

## SECTION 15. REGULATORY INFORMATION

### Safety, Health and Environmental Regulations

#### Canada

##### Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

##### CEPA - National Pollutant Release Inventory (NPRI)

(Ethylbenzene) Part 1A.

(Xylene (mixed isomers)) Part 1A.

(Distillates (petroleum), hydrotreated light) Part 5.

(Solvent naphtha (petroleum), heavy aromatic) Part 5. (Isopropanol) Part 5.

(Stoddard solvent) Part 5.

(Naphthalene) Part 1A.

#### USA

##### Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

##### Additional USA Regulatory Lists

CERCLA. (Ethylbenzene). (Xylene (mixed isomers)). (Naphthalene)

SARA Title III - Section 302: Not applicable.

SARA Title III - Section 313. (Ethylbenzene). (Xylene (mixed isomers)). (Naphthalene)

California Proposition 65. (Ethylbenzene). (Naphthalene)

Massachusetts Right To Know: Not applicable.

New Jersey Right To Know. (Ethylbenzene). (Methyl isobutyl carbinol). (Xylene (mixed isomers)). (Isopropanol).

(Petroleum gases, liquefied). (Stoddard solvent). (Naphthalene)

Pennsylvania Right To Know. (Ethylbenzene). (Methyl isobutyl carbinol). (Xylene (mixed isomers)). (Isopropanol).

(Petroleum gases, liquefied). (Stoddard solvent). (Naphthalene)

## SECTION 16. OTHER INFORMATION

<b>NFPA Rating</b>	<b>Health - 2</b>	<b>Flammability - 3</b>	<b>Instability - 0</b>
	<b>Based on</b>	Xylene (mixed isomers)	
<b>SDS Prepared By</b>	Regulatory Compliance		
<b>Phone No.</b>	905.847.0222		
<b>Date of Preparation</b>	November 09, 2015		
<b>Key to Abbreviations</b>	ACGIH® = American Conference of Governmental Hygienists CANUTEC = Canadian Transport Emergency Centre CAS = Chemical Abstract Service CCOHS = Canadian Centre for Occupational Health & Safety CNS = Central nervous system GESTIS = GESTIS Substance Database HSDB® = Hazardous Substances Data Bank IARC = International Agency for Research on Cancer ICAO = International Civil Aviation Organization IMDG = International Maritime Dangerous Goods Code LC = Lethal concentration LC = Lethal dose NFPA = National Fire Protection Association NTP = National Toxicology Program OSHA = US Occupational Safety and Health Administration		

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PPM = Parts per million  
RTECS® = Registry of Toxic Effects of Chemical Substances  
STEL = Short term exposure limit  
TDG = Transportation of Dangerous Goods Regulations (Canada)  
TWA = Time weighted average

**References**

Material Safety Data Sheet from manufacturer. CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA ("BIOVIA"). Available from Canadian Centre for Occupational Health and Safety (CCOHS). ECHA - European Chemical Agency, Classification and Labelling Inventory gESTIS Substance Database oECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2015.

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