



**EIE Enterprise (M) Sdn. Bhd.** (944691-T)

## **HI-GRADE #158-UC SOLVENT CLEANER**

### **DESCRIPTION**

HI-GRADE #158-UC SOLVENT CLEANER is designed for use in removing flux residues from printed circuit boards. The #158-UC is comprised of a chlorinated solvent not contained on the list of ozone depleting chemicals. Use of this solvent does not violate the mandates set forth in the CLEAN AIR ACT or the MONTREAL PROTOCOL.

### **BENEFITS**

- Effectively removes residues from rosin and synthetically activated soldering fluxes
- Does not contain solvents considered as ozone depleting
- Capable of absorbing large amounts of contaminants yet still provide excellent cleaning

### **APPLICATION**

The #158-UC can be used in vapor degreasers, ultrasonic cleaners, or used at room temperature for immersion cleaning. This solvent can be used for removing rosin or synthetically activated flux residues.

### **PHYSICAL PROPERTIES**

Specific Gravity	1.520 @ 60° F
Pounds per Gallon	12.67
Boiling Point	248 - 255° F
Flash Point	None
Appearance	Clear liquid

### **SAFETY**

Use with adequate ventilation. Always wear safety glasses and protective clothing. See MSDS for full details.

### **PACKAGING**

25/kg

MATERIAL SAFETY DATA SHEET      HI-GRADE # 158-UC SOLVENT CLEANER  
Page : 1

**Manufacturer**

Name : HI-GRADE ALLOY CORP.  
Address : 17425 S. LAFLIN AVE  
P.O. BOX 155  
EAST HAZEL CREST, IL 60429  
Phone #: 708-798-8300  
Emergency #: 1-800-535-5053 (INFO TRAC)  
Date Prepared : 02/17/2000

**CHEMICAL IDENTITY**

Product Name    **HI GRADE # 158-UC CLEANER**

**HAZARDOUS INGREDIENTS**

Material or Component	%	TWA	STEL	Toxicity Data
HALOGENATED HYDROCARBON	95-100		200 PPM	CAS : 127-18-4

The HI-GRADE ALLOY CORP. reserves the right to withhold the specific chemical Identity of its components as a trade secret; however, all essential data provided does pertain to the specific chemicals utilized in the formulation of our product.

**PHYSICAL DATA**

Melt/Freeze Point :	≤ 20° C	Specific Gravity :	1.520
Boiling Point :	250 °F	Solubility in water :	INSOLUBLE % BY
Vapor Pressure :	13MM HG@68°F	% Volatile by volume :	100 %
Vapor Density :	5.83	Evaporation Rate :	0.12
Colour :	CLEAR	pH (as is) :	NA
Appearance & State :		pH (1% solution) :	NA
Odor :	MILD		

**FIRE & EXPLOSION DATA**

Flash Point : NONE  
Autoignition Temperature : NA  
Extinguishing Media : WATER  
Flammable Limits (Air)  
Upper Limit : NONE  
Lower Limit : NONE  
Special fire fighting procedures : NONE  
Unusual fire & explosion hazards : NONE

## REACTIVITY DATA

---

STABLE                      HAZARDOUS POLYMERIZATION WON'T OCCUR.

**Conditions to avoid :**

SPARKS, OPEN FLAME, DIRECT HEAT, ELECTRIC ARCS.

**Incompatibilities (Materials to Avoid):**

STRONG OXIDIZERS, ALUMINUM, PURE OXYGEN, ALKALI METALS.

**Hazardous decomposition products :**

MAY DECOMPOSE TO FORM HCL GAS, PHOSGENE, OR CHLORINE, CARBON MONOXIDE/DIOXIDE.

## ACUTE & CHRONIC EFFECTS OF OVEREXPOSURE

---

**Inhalation :**

CNS DEPRESSANT, NAUSEA, HEADACHE, RESPIRATORY TRACT IRRITANT.

**Skin contact :**

MAY CAUSE MODERATE IRRITATION & DRYING ON PROLONGED EXPOSURE.

**Skin absorption :**

PROLONGED EXPOSURE=HEADACHE, NAUSEA, BREATHING DIFFICULTY.

**Eye contact :**

PAIN AND IRRITATION FROM CONTACT.

**Ingestion :**

IRRITATION OF MOUTH, INTESTINAL TRACT, KIDNEY DAMAGE, EDEMA.

## EMERGENCY & FIRST AID PROCEDURES

---

**Eyes :**

FLUSH WITH WATER FOR AT LEAST 15 MINUTES.

CONTACT A PHYSICIAN.

**Skin :**

WASH AFFECTED AREAS WITH SOAP & WATER.

REMOVE CONTAMINATED CLOTHING.

CONTACT A PHYSICIAN.

**Inhalation :**

MOVE TO FRESH AIR. IF BREATHING IS DIFFICULT,

GIVE OXYGEN. CONTACT A PHYSICIAN IMMEDIATELY.

**Ingestion :**

DO NOT INDUCE VOMITING. IF VOMITING OCCURS, PREVENT ASPIRATION.

CALL PHYSICIAN IMMEDIATELY.

**Decontamination procedures :**

NO SPECIAL PROCEDURES KNOWN TO US.

**Note to Physician :**

DANGER FROM ASPIRATION SHOULD BE WEIGHED AGAINST TOXICITY REGARDING STOMACH EMPTYING.

---

EMPLOYEE PROTECTION INFORMATION

---

**Ventilation requirements :**

FACE VELOCITY >2.1 CUBIC FEET/MINUTE IN CONFINED AREAS.

**Recommended personal protection equipment :**

**Respirators (specify type) :**

OSHA / MSHA APPROVED ORGANIC VAPOR CARTRIGES FOR CONCENTRATIONS >TLV.

**Eyes :**

SPLASH GOGGLES / FACE SHIELD

**Gloves :**

VITON, POLYVINYL ALCOHOL OR, FOR LIMITED TIME ONLY, NITRILE RUBBER.

**Special clothing & equipment :**

EYE WASH & SAFETY SHOWER SHOULD BE AVAILABLE AT ALL TIMES.

LONG SLEEVE CLOTHING SHOULD BE WORN.

PRECAUTIONARY STATEMENT

**As conditions and methods of use are beyond our control, we DO NOT assume any responsibility and expressly disclaim any liability for any use of the material. Information contained here in is believed to be true but all suggestions are made without any warranty.**

---

DISPOSAL, SPILL OR LEAK PROCEDURES

---

**Aquatic toxicity classification :**

NOT ESTABLISHED

**Procedure for release or spill :**

LARGE SPILLS USE VACUUM TRUCKS / PUMP INTO STORAGE VESSELS. SMALL SPILLS USE ABSORBENTS.

**Regulatory Information :**

ALL COMPONENTS IN THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY.

RCRA-HAZARDOUS WASTE ID # U-210. SPENT MATERIAL ID # F002

FISH, LC(50) LETHAL CONCENTRATION 96 HR TL(M) : 100-10 PPM AQUATIC RATING : TOXIC

**THIS MSDS IS BEING PROVIDED TO YOUR COMPANY FOR PURPOSE OF PROVIDING CURRENT HEALTH AND SAFETY INFORMATION TO YOUR MANAGEMENT AND FOR YOUR EMPLOYEES WHO WORK WITH THIS MATERIAL.**

**PLEASE READ THE INFORMATION ON THESE SHEETS, AND THEN PROVIDE THIS INFORMATION TO THOSE PEOPLE AT YOUR COMPANY WHOSE RESPONSIBILITY IT IS TO COMPLY WITH FEDERAL AND STATE RIGHT TO KNOW REGULATIONS. ALSO MAKE THIS INFORMATION AVAILABLE TO ANY EMPLOYEE WHO REQUESTS IT.**

---

TRANSPORTATION INFORMATION

---

**Dot proper shipping name :**

Hazard class :                    ORM-A

UN/NA # :                        UN 1897

Packaging group :                III

HMIS rating :                    2-0-C

Health :                         1

Flammability :                   0

Reactivity :                     0