



EXCEL INDUSTRIES LIMITED

VARSHACEL™  
MATERIAL SAFETY DATA SHEET  
(According to 2001/58/EC)

**SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Product details**

- **Chemical Name** :
- **Trade Name** : VARSHACEL
- **Synonyms** : ---
- **Chemical class** : Organic Acid

**Use of Substance** : Conditioning of irrigation water.

**Manufacturer** : EXCEL INDUSTRIES LIMITED  
184-87, S.V.Road, Jogeshwari (West), Mumbai – 400102, INDIA

**Informing department** : EHS Department

**Emergency Information** : **Mumbai H.O.** (0830 - 1730 hrs) :-  
Tel. : +91 22 6646 4200, 2678 8258 Fax : +91 22 2678 3508  
Lote Parshuram Works (24 hrs.)  
Emergency Tel. : + 91 2356 272019, 272 062 Fax : + 91 2356 272336

**SECTION 2 : COMPOSITION / INFORMATION ON INGREDIENTS**



Ingredient name	CAS No.	%	EC / EINECS No	Symbol	R/S Phrases
Proprietary Blend	-----	14 - 15	----	Xi, C	R36/37/38 R41

**Note:** See Section 16 for full text of R & S phrases mentioned above

**SECTION 3 : HAZARDS IDENTIFICATION**

Potential hazards : Irritant, Corrosive  
Potential health effects : Irritant, Corrosive  
Relevant route of exposure :

- Skin contact : Irritant effect on skin
- Eye Contact : Causes severe irritation to eyes, pain, burning. Risk of serious damage to eyes.
- Inhalation : Irritation of upper respiratory tract, lungs
- Ingestion : Irritation of mouth and digestive tract.

R – phrases : R36/37/38, R41  
S- phrases : -----  
Environmental effects :  
Hazard Symbols :  Xi  C



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**SECTION 4 : FIRST AID MEASURES**

- General information : Instantly remove any clothing contaminated by the product. Do not wait until symptoms appear, but follow immediately the instructions given below.
- After eye contact : Immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held apart during the flushing. Seek medical attention immediately.
- After skin contact : Remove contaminated clothing. Wash affected area with large amounts of water & soap. Seek medical attention immediately. If the clothing is contaminated, it should be laundered.
- After inhalation : In case of exposure remove exposed person to fresh air. If breathing has ceased, give artificial respiration immediately. Seek medical attention.
- After ingestion : First rinse mouth. Give large amount of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Keep at rest. Seek medical attention immediately.
- Note to Physician : Treat symptomatically

**SECTION 5 : FIREFIGHTING MEASURES**

- Suitable extinguishing : Water, Dry Chemical powder, foam, CO2 media.
- Unsuitable fire : None
- Extinguishing media
- Hazardous combustion Products : Carbon monoxide, Carbon Dioxide, Phosphorous oxides.
- Fire Fighting procedure : Do not enter the area without proper protection. Do not allow the fire fighting water to enter water bodies.
- Special protective : Do not breathe fumes. Wear self-contained breathing apparatus and full equipment for the fighters protective clothing. Equipment should be thoroughly decontaminated after use.



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**SECTION 6 : ACCIDENTAL RELEASE MEASURES**

Personal precautions : Try to stop the leak without taking undue risk. Avoid contact with material. Use respiratory & personal protection recommended in Section 8.

Environmental Precautions : Prevent mixing with water bodies, sewers.

Methods for cleaning up : Construct temporary dykes of sand, earth, dirt to prevent spreading of material. Absorb on sand, suitable absorbents or inert material. Carefully collect material in containers for disposal. Use respiratory equipment & personal protective clothing. Dispose as per instructions mentioned in Section 13.

Additional instructions : After cleanup operations, decontaminate & launder all protective clothing and equipment before storing & reusing.

**SECTION 7 : HANDLING AND STORAGE**

**HANDLING :**

Information for safe handling : Only trained staff with special training and appropriate equipment must handle the product. Good industrial practice in housekeeping should be followed. Avoid contact with eyes, skin and clothing. Use personal protective equipment recommended in Section 8

**Technical measures like containment, ventilation, spillage handling etc.:** Ensure good ventilation at workplace. Do not enter confined spaces until atmosphere has been checked.

**STORAGE :**

**Conditions for safe storage :** Store in cool, dry, well-ventilated area away from heat and ignition sources. Keep containers securely sealed. Avoid physical damage to containers. Check regularly for spills/leaks. Store away from incompatible materials and foodstuff materials.

**Material of construction of containers:** HDPE carbuoys, HMHDPE drums

**SECTION 8 : EXPOSURE CONTROL / PERSONAL PROTECTION \_ Occupational exposure limit values / Biological limit values:** No data available

**Applicable control measures, including engineering controls:** Good industrial practice in housekeeping and personal hygiene should be followed. Ensure adequate ventilation of workplace. If risk of overexposure exists, wear approved respirator. Provide eyewash facility & safety shower.

**Industrial Hygiene Controls:** Good personal hygiene practices should be followed. Avoid contact with eyes, skin and clothing. Wash hands before breaks and after work. Take bath after work. Do not eat, drink, smoke in the workplace. Use personal protective equipment



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**Personal protective equipment for each exposure route (type & MOC):**

- Respiratory protection : Wear respirator with appropriate filter in case of high concentration
- Hand protection : PVC / Rubber gloves Penetration time of glove material : Not available
- Eye protection : Safety goggles, Full face shield
- Skin protection : Chemical resistant apron
- Foot : Safety shoes / Rubber gumboots

**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**

**General Information :**

- Physical state : Liquid
- Colour : Pink to red
- Odour : Slight caramel odour

**Important Health, Safety & Envir. Information**

- pH (1 % Solution ) : 2 to 3

**Other information :**

- Freezing / Melting point : Below -40°C
- Specific gravity : 1.040 ± 0.02 @ 25°C
- Solubility in water : Miscible in water
- Flash point (with method) : Not applicable
- Auto ignition temperature : Not applicable

**SECTION 10 : STABILITY AND REACTIVITY**

- Chemical stability : Generally stable under normal conditions of handling and storage.
- Conditions to avoid : Heat
- Materials to avoid : Corrodes base metals. Reacts with oxidising substances, alkalis
- Hazardous decomposition products : Oxides of carbon, Oxides of phosphorus
- Hazardous polymerization : None

**SECTION 11 : TOXICOLOGICAL INFORMATION**

**Toxicology data :**

- Skin : Dermal LD50 (Rabbit) 10000mg / kg  
: Dermal LD50 (Rat) – 7000 mg/ kg
- Ingestion : Oral LD50 (Rat) ->2000 mg/ kg
- Inhalation : No data available
- Irritancy : Irritation of skin, eyes, respiratory system.

**Acute effects :**

- Skin Contact : Irritation
- Eye Contact : Severe irritation
- Inhalation : Irritation
- Ingestion : Irritation



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**Chronic effects :**

Sensitization : No data available  
Carcinogenicity : No data available  
Reproductive toxicity : None  
Teratogenicity : None  
Mutagenicity : None  
Toxicologically synergistic products : No data available

**SECTION 12 : ECOLOGICAL INFORMATION**

**Ecotoxicity:**

1. Aquatic toxicity :  
EC50 / Daphnia / 48H : > 500 mg/l LC50 / Daphnia / 96H : > 400 mg/l
2. Toxicity to algae :  
EC50 / Algae / 96H : 3.0 mg/l
3. Toxicity to fish :  
LC50 / Rainbow trout / 96H : 368 mg/l LC50 / Bluegill sunfish / 96H : 868 mg/l

**Mobility** : No data available  
Persistence and degradability in soil/ water : No data available  
Bioaccumulation potential : No data available  
Other adverse effects (ODP, GWP, etc). : No data available

**SECTION 13 : DISPOSAL CONSIDERATION**

**Waste disposal information of product & contaminated packaging:** Spill and waste disposal procedures approved by state and local authorities must be observed. Labels should not be removed from containers until they have been cleaned and decontaminated. Decontaminate the container taking suitable precaution considering hazard before reuse or recycle and dispose off as per local rules.

**SECTION 14 : TRANSPORT INFORMATION**

**Land Transport ADR/ RID (cross border) :**

ADR / RID - GGVS/E Class : 8 (Corrosive)  
UN Number : 3265  
Proper Shipping Name : Corrosive liquid, Acidic, Organic, N.O.S. (contains modified Phosphonic Acid.  
Packaging group : III  
Label : Corrosive.



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**Maritime Transport IMDG**

IMDG Class : 8 (Corrosive)  
Page :  
UN Number : 3265  
Proper Shipping Name : Corrosive liquid, Acidic. Organic, N.O.S. ( Contains modified Phosphonic Acid )  
  
Packaging group :  
EMS Number :  
MFAG :  
Marine Pollutant :  
Label : Corrosive.

**Air Transport ICAO/ IATA :**

ICAO / IATA Class : 8 (Corrosive)  
UN Number : 3265  
Proper Shipping Name : Corrosive liquid, Acidic. Organic, N.O.S. ( Contains modified Phosphonic Acid )  
  
Packaging group : III  
Label : Corrosive.

**SECTION 15 : REGULATORY INFORMATION**

National laws/ Regional laws:-

Labelling :

 Irritant  Corrosive

Risk phrases : R41; R36/37/38

**SECTION 16 : OTHER INFORMATION**

Full text of R & S phrases given below:-

R41 - Risk of serious damage to eyes  
R36/37/38 - Irritating to eyes, respiratory system and skin.

**DISCLAIMER:** Information contained in this Material Safety Data Sheet is believed to be reliable but no representation, guarantee or warranties of any kind are made as to the accuracy, suitability for a particular application or results to be obtained from them. It is up to the user to ensure that the information contained in the Material Safety Data Sheet is relevant to the product manufactured/ handled or sold by him as the case may be. Excel Industries Limited makes no warranties, expressed or implied, in respect of the adequacy of this document for any particular purpose.