



# MATERIAL SAFETY DATA SHEET

## 1. PRODUCT AND IDENTIFICATION

1. PRODUCT NAME : Tectyl EG(NAS 8)
2. APPLICATION : Not available
3. INFORMATION OF MANUFACTURER
  - ① Name of manufactures : KOREA HOUGHTON CO. LTD.
  - ② Telephone / Fax numbers : Tel) 82-3284-3300  
Fax) 82-2-3284-3333 ~ 3335
  - ③ Address : Yoido P.O. Box 185, 19th Floor, KSCFC Bldg 395-70  
Shin Dae Bang-Dong, Dongjak-Ku, Seoul, Korea
  - ④ Emergency contact : Tel) 82-41-540-9240 ~ 3  
Fax) 82-41-541-8387
  - ⑤ Completed by : Sun Ki Baik(2011. 5. 13)

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

Material	Common name	CAS No.	% By Wt	Etc.
ethylene Glycol	MEG	107-21-1	99.0 ~ 100.0	
Extra	—	—	1.0 max.	

## 3. HAZARDS IDENTIFICATION

1. Emergency hazardous information : No specific hazard.
2. Eye Contact : No significant effects known.
3. Skin Contact : May be a mild irritant on prolonged contact.
4. Inhalation : No significant effects known.
5. Ingestion : No significant effects known.
6. Chronic State Symptom : No reference

## 4. FIRST-AID MEASURES

1. Eyes Contact : Thoroughly flush eyes with water for 15~20 minutes
2. Skin Contact : Immediately wash with soap or soft cleaner / and plenty of water for 15~20 minutes  
Get medical attention if irritation develops or persists.
3. Inhalation : Bet medical attention if cough or other symptoms develop. If breathing is difficult,  
Remove to fresh air and provide oxygen. If not breathing, give artificial respiration.
4. Ingestion : Do not induce vomiting; give liquids, consult physician. Product is mainly mineral oil.

## 5. FIRE-FIGHTING MEASURES

1. Flash Point : 111°C
2. Natural Ignition Point : 398°C
3. Flammable Limits In Air(% by Volume)  
Lower Flash Limit / Upper Flash Limit : No reference
4. Classification and Regulation by Fire Service Act : No reference
5. Extinguishing media : Use dry chemical, CO<sub>2</sub>, water spray or standard foam  
In big fire, use water spray or fog or standard foam
6. Fire fighting Methods and Equipment : Move containers from the fire zone if possible  
Cool the heated container with cold water spray in some distance as far as possible.  
Depending upon the fire source, use proper extinguishing media  
Use plenty of water in fog type.  
Don't inhale the erodible vapor and stand in the back of wind direction
7. Fire Cased hazardous Substance : Under fire conditions, toxic and irritating fumes may be emitted CO<sub>x</sub>, NO<sub>x</sub>, etc.
8. Unsuitable Extinguishing Media : No reference

## 6. ACCIDENTAL RELEASE MEASURES

1. Body protection : use proper personal protective equipment as outlined in section 8.
2. Environmental protection : Block the released material.  
Use flash or cement powder to absorb liquid material.

## 7. HANDLING AND STORAGE

1. Handling : Provides suitable mechanical equipment for the easy drum handling.  
Handle and open container with care. Avoid contact with skin and eyes.
2. Storage : Obey government and local laws and regulation. Protect from physical damage.  
Store in a cool and dry place. Use with adequate ventilation.  
Keep away from ignition source.  
Keep separately from the material to be supposed having dangerous chemical reaction.

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

1. Eyes : Safety goggles or safety glasses with side shields
2. Skin : Wear protective gloves to minimize skin contamination. For brief contact,  
Normal work attire should be sufficient. When prolonged or frequently repeated  
Contact could occur, use protective clothing impervious to this material.
3. Inhalation : Local exhaust ventilation is recommended when excessive product misting occurs.

4. Industrial hygiene : Good standards of industrial hygiene together with the use of moisturizing creams are recommended for use of the diluted product.
5. Body Protection : Use impermeable clothes and equipment
6. Exposure Regulation : No reference

## 9. PHYSICAL AND CHEMICAL PROPERTIES

1. Appearance : Colorless liquid
2. Odor : Orderless
3. pH : N/A
4. Solubility in Water : Soluble
5. Boiling point/range : 198°C
6. Melting point/range : Max -12.0°C (Pour point)
7. Explosion : No reference
8. Oxidation Stability : N/A
9. Vapor pressure : 0.05 mmHg @ 20°C
10. Specific Gravity : 1.1088 (15/4°C)
11. Division factor : No reference
12. Vapor density : No reference
13. Viscosity : 21 cP @ 15°C
14. Molecular weight : 62.07

## 10. STABILITY AND REACTIVITY

1. Chemical stability : The product is stable and not subject to polymerization.
2. Conditions and material to avoid : Mixing of high pressure oxygen gas in high temperature  
Mixing of water in high temperature
3. Hazardous decomposition : product does not decompose at ambient temperature.
4. Hazardous substance creation upon reaction : No reference

## 11. TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on a knowledge of the toxicity of the product's components.

1. Eyes : Irritating to eyes.
2. Skin : Irritating to skin.
3. Inhalation : Inhalation of mists may cause irritating
4. Ingestion : Ingestion of large quantities may cause nausea and sickness.
5. Chronic : Frequent and prolonged contact may lead to skin disorders
6. Special hazards of product after use : Product may become contaminated with hazardous metals depending upon conditions of use.  
These may introduce an increased risk to health via

allergic skin reaction or exposure to excessive mist.

## 12. ECOLOGICAL INFORMATION

1. Mobility : Mobile liquid.
2. Persistence and degradability : No reference
3. Bioaccumulative potential : No reference

## 13. DISPOSAL CONSIDERATION

Disposal must be in accordance with local and national legislation.

1. The product should be removed by approved waste contractors.
2. 200liter unlined steel drums may be returned for recycling.

All other packaging should be disposed of in a manner acceptable to the authorities

The container may contain combustible residues.

## 14. TRANSPORT INFORMATION

1. Classification for trans port : Not classified.
2. UN number : Not applicable
3. Packing group : Not applicable
4. Marine pollutant : No reference
5. ICAO/IATA class : Not applicable

## 15. REGULATORY INFORMATION

1. OSHA STATUS : Product is not considered hazardous by OSHA standards.
2. TSCA STATUS : This product is on TSCA Inventory.
3. CERCLA : Not regulated.
4. SARA TITLE III : None.

## 16. OTHER INFORMATION

The information contained herein relates only to the specific material identified.

Korea Houghton Company believes that such information is accurate and reliable as the date of this material safety data sheet.

But no representation, guarantee or warranty, express or limited, is made as to the accuracy, reliability or completeness of the information.

Korea Houghton Company urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.

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