

MATERIAL SAFETY DATA SHEET

ISSUE DATE Feb. 28, 2005

PRODUCT NAME

TOHO CLEAN HP-600R

TOHO CHEMICAL INDUSTRY CO., LTD.

TEL 03-5550-3739(HEAD OFFICE)

FAX 03-5550-1988(HEAD OFFICE)

MSDS No. 544461

PREPARED BY: T.TOKUUE

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

CHEMICAL PRODUCT NAME : TOHO CLEAN HP-600R

NAME OF MANUFACTURE : TOHO CHEMICAL INDUSTRY CO., LTD.

NAME OF SECTION : OPPAMA TECHNICAL RESEARCH LABORATORY

ADDRESS : 5-2931 Uragou-Cho, Yokosuka-Shi, Kanagawa-Ken, Japan 〒237-0062

TELEPHONE NUMBER FOR INFORMATION : (046)-866-5733 FAX No.: (046)-866-5731

2. COMPOSITION/ INFORMATION OF INGREDIENTS

SUBSTANCE/MIXTURE : Mixture

	CAS REGISTRY NUMBER	COMPOSITION
CHEMICAL NAME : Anionic surfactant	84238-63-1	10.0%
Nonionic surfactant	9003-11-6	3
Triethanol amine	102-71-6	9.6
Glycol ether	112-34-5	2
Corrosion inhibitor	95-14-7	0.1
Water		75.3

CHEMICAL FORMULA : STRUCTURAL FORMULA :

UN CLASS : Not applicable.

UN NUMBER : Not applicable.

3. HAZARDS IDENTIFICATION

CLASS NAME OF HAZARDOUS CHEMICALS FOR SDS IN JAPAN

Not applicable

PHYSICAL AND CHEMICAL HAZARDS: Not combustible.

ADVERSE HUMAN HEALTH EFFECT: Irritating to eyes, skin and membranes slightly.

ENVIRONMENTAL EFFECT : No data available.

4. FIRST-AID MEASURES

EYE CONTACT : Immediately flush with plenty of water for at least 15 minutes and get medical attention if irritation persist.

SKIN CONTACT: Wash material off the skin with plenty of water and wash with soap.

INHALATION : Remove person to fresh air zone and get medical attention if symptoms occur.

INGESTION : Give much water or milk and make it bring up, get medical attention.

Never give anything by mouth to unconscious person.

5. FIRE-FIGHTING MEASURES

SPECIFIC HAZARDS WITH REGARD TO FIRE-FIGHTING MEASURES:

Keep away the chemicals from the origin of fire, and put out fire using extinguisher.

Cool down the surrounding buildings and storage tanks not to catch fire by splashing large quantity water.

EXTINGUISHING MEDIA: Use water spray, foam, dry chemical powder or carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

A small quantity of case, wipes off with cloth.

A large quantity of case shuts off all sources of ignition, then collect leaking liquid in covered metal containers using like vacuum pump.

Do not wash away into public drainage way or river.

7. HANDLING AND STORAGE

HANDLING : Avoid contact with eyes and other membranes.

Do not breath gases, vapor and spray using in warming, especially.

Rinse mouth with water and wash hands after work.

Make available in the work area emergency shower and eyes wash.

STORAGE : Close up tight and store it a cool and dark place.

Please, use early if opened the vessel.

Exercise routine care in accordance with good industrial hygiene practice.

PRECAUTIONARY LABELING: Not required.

OTHER PRECAUTIONS: Generally not required.

8.EXPOSURE CONTROL/PERSONAL PROTECTION

CONTROL PARAMETERS:	TWA(8Hr)	STEL(15min)
ACGIH(2003)	5mg/m ³	- (As Triethanolamine)
OSHA PEL(2005)	Not applicable.	-

ENGINEERING MEASURES: Generally not required.

VENTILATION REQUIREMENTS:

(LOCAL EXHAUST) Generally adequate.

(OTHER) Generally not required.

RESPIRATORY PROTECTION (SPECIFY TYPE): Generally not required.

EYE PROTECTION: Chemical goggles recommended.

OTHER PROTECTIVE REQUIREMENT: Impervious gloves recommended.

9.PHYSICAL AND CHEMICAL PROPERTIES

Representative Properties

BOILING POINT () :	No data.	DENSITY (15) :	1.036g/cm ³
VAPOR PRESSURE(mmHg):	No data.	pH(5%aq. soln) :	8.4
VAPOR DENSITY(Air =1):	No data.	MOISTURE (%) :	No data.
SOLUBILITY IN WATER :	Soluble.	EVAPORATION RATE :	No data.
APPEARANCE AND ODOR :	Clear liquid with slightly specific odor.		

10. PHYSICAL HAZARD(STABILITY AND REACTIVITY)

FLASH POINT (, METHOD USED) : No detect.

AUTO IGNITION TEMPERATURE : No data.

FLAMMABLE LIMITS: (LOWER) No data.
(UPPER) No data.

STABILITY : Stable usually.

(CONDITION TO AVOID)

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agent.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, Carbon dioxide and Nitrogen oxides.

HAZARDOUS POLYMERIZATION: Will not occur.

(CONDITIONS TO AVOID)

11. TOXICOLOGICAL INFORMATION

IRRITANT : May be harmful by inhalation, ingestion.

Cause eye irritation. Material is irritating to membranes and upper respiratory tract.

ALLERGIC AND SENSITIVE EFFECTS : Not proven.

ACUTE TOXICITY: Oral LD₅₀ (Rat) 15.57g/kg (calculated value)

MUTAGENIC EFFECTS: No data available.

CARCINOGENICITY: NTP Not listed.

IARC Not listed.

OSHA Not listed.

12. ECOLOGICAL INFORMATION

BIODEGRADABILITY : BOD₅;75mg/L COD; 140mg/L (1g/L).

BIO ACCUMULATION : No data available.

FISH TOXICITY : No data available.

13. DISPOSAL CONSIDERATIONS

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Absorb spills with suitable absorbent like a piece of waste clothes.

WASTE DISPOSAL METHOD : Burn out the wipe clothes.

NEUTRALIZING CHEMICALS : Generally not required.

14. TRANSPORT INFORMATION

Follow all regulations in your country.

Export HS Code : 3402.90-000

15. REGULATORY INFORMATION

The TOHO CHEMICAL COMPANY is not able to check up the regulatory information in regard to the substances in your country or region, therefore we request this matter would be filled by your responsibility. Follow all regulations in your country.

16. OTHER INFORMATION

REFERENCES

This information herein is given in good faith, but no warranty, express or implied, is made.

Final determination of suitability of any material is the sole responsibility of the user.

All materials may present unknown hazards and should be used in caution.

Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist.