

MATERIAL SAFETY DATA SHEET (MSDS)

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : ULTRA CLEAN US40

ULTRA CLEAN SUPPLIER : CLEANER PLUS

ADDRESS : 711/59 Theparak Rd. Phraeksa Mai Subdistrict,
Mueang District, Samut Prakan Province 10280 Thailand

DIVISION : Chemical Division

TELEPHONE NUMBER : +66613936792

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EMERGENCY TELEPHONE NUMBER : +66613936792

RECOMMENDED USE : Only for surface finishing industrial use

2. HAZARDS IDENTIFICATION

MOST IMPORTANT HAZARDS AND : None EFFECTS

GHS CLASSIFICATION

PHYSICAL AND CHEMICAL HAZARDS

CORROSIVE TO METALS : None

HEALTH HAZARDS

ACUTE TOXICITY (Oral) : Category 5

ACUTE TOXICITY (Dermal) : Category 5

ACUTE TOXICITY (Inhalation) : Category 5

SKIN CORROSION / IRRITATION : Category 3

SERIOUS EYE DAMAGE/EYE : Category 2B IRRITATION

RESPIRATORY SENSITIZATION : Classification not possible

SKIN SENSITIZATION : Category 1

GERM CELL MUTAGENICITY : Classification not possible

CARCINOGENICITY : Classification not possible

REPRODUCTIVE TOXICITY : Classification not possible

SPECIFIC TARGET ORGAN TOXICITY

- SINGLE EXPOSURE : Classification not possible

- REPEATED EXPOSURE : Classification not possible

ASPIRATION HAZARD : Classification not possible

ENVIRONMENTAL HAZARDS

HAZARDOUS TO THE AQUATIC ENVIRONMENT

- ACUTE TOXICITY : Category 3

- CHRONIC TOXICITY : Category 4

GHS LABEL ELEMENTS

PICTOGRAMS OR SYMBOLS

:



SIGNAL WORD

: Warning

HAZARD STATEMENTS

: Harmful for long term skin contact

Harmful for direct eye contact

Harmful for Ingestion

Harmful to aquatic life

PRECAUTIONARY STATEMENTS

PREVENTION

: Keep only in original container.

Do not breathe dust/fume/gas/mist/vapors'/spray.

Avoid release to the environment.

Do not eat, drink or smoke when using this product.

Wash thoroughly after handling.

Wear protective gloves/eye protection/face

Protection/protective clothing.

RESPONSE: IF INHALED

: Remove to fresh air and keep at rest in a position comfortable for breathing.

IF SWALLOWED

: Rinse mouth. Do NOT induce vomiting.

IF IN EYES

: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

IF ON SKIN (or hair)

: Remove/take off immediately all contaminated

Clothing. Rinse skin with water/shower; call a POISON CENTRE or doctor/physician.

IF exposed

: Call a POISON CENTER or doctor/physician.

Absorb spillage to prevent material damage.

STORAGE

: Store in a cool dry area, in a closed container. Avoid extremes of temperature.

DISPOSAL

: Passed to a licensed waste contractor.

SAFE HANDLING ADVICE

: Refer to MSDS.

This product may form separation according to the storage condition.

In that case, please agitate or stir, then use as homogenous liquid.

3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE OR MIXTURE : Mixture

INGREDIENTS AND CONCENTRATION : Aqueous solution of mixtures of amine group compound RANGE

Ingredients	Concentration Range (%)	CAS No.
Solids/Amine Compound	<60%	proprietary
Surfactant	<20%	166736-08-9
Water	Balance	-

4. FIRST-AID MEASURES

IN CASE OF INHALATION : Remove to fresh air and keep at rest in a position comfortable for breathing.

IN CASE OF SKIN CONTACT : Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Call a POISON CENTRE or doctor/physician.

IN CASE OF EYE CONTACT : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor/physician.

IN CASE OF INGESTION : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA : Extinguishing media governed by other materials present. Water spray preferred due to diluting effect. Self contained breathing apparatus should be worn.

NOT SUITABLE EXTINGUISHING MEDIA : No information available SPECIFIC HAZARDS: No information available

SPECIFIC METHODS : Keep away from sources of ignition and use appropriate extinguishing media. Fight fire from upwind position if possible.

PROTECTION OF FIRE FIGHTERS : The product is not flammable. Under certain circumstances, used by other materials, the formation of other toxic substances cannot be excluded. Use goggles in combination with dust mask, and other protections as appropriate to situation.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS : Use goggles and protective gloves. PROTECTIVE EQUIPMENT AND Large spills: Remove person to safety.

EMERGENCY PROCEDURE Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS : Avoid release to the environment.

METHODS FOR CLEANING UP Collect the chemicals and flush the area with plenty of water

PREVENTION OF SECONDARY : No information available

HAZARDS

7. HANDLING AND STORAGE

HANDLING

TECHNICAL MEASURES : Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

PRECAUTIONS : Avoid contact with eyes and skin. This product may form separation according to the storage condition. In that case, please agitate or stir, then use as homogenous liquid.

SAFE HANDLING ADVICE : Use adequate ventilation. Wash thoroughly after handling. Use personal protective equipment as required

Do not breathe dust/fume/gas/mist/vapors'/spray.

Do not eat, drink or smoke when using this product.

Avoid contact with acid.

STORAGE

SUITABLE STORAGE CONDITIONS : Store container tightly closed in well-ventilated place.
Store in a cool dry area, in a closed container.
Avoid extremes of temperature.

SAFE PACKAGING MATERIALS : No information available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING MEASURES : Facilities storing or utilizing this material should be equipped
With eyewash facility and a safety shower.
Use adequate ventilation.

LIMIT VALUES

ACGIH (TLV) : No information available

OSHA (PEL) : No information available

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION : Use chemical cartridge respirator, as appropriate to situation.

HAND PROTECTION : Chemical protection gloves. PVC is a suitable material of construction.

EYE PROTECTION : Safety goggles or Face shield

SKIN AND BODY PROTECTION : Long sleeved overall, rubber apron and face shield. Impermeable safety footwear
HYGIENE MEASURES: No information available

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATES

FORM : Liquid

ULTRA CLEAN US40**Revision date: Apr 2018**

COLOUR	: Yellow
ODOUR	: Slightly unpleasant
pH	: 8.0-12.0 (3% solution, at 25°C)

SPECIFIC TEMPERATURES / TEMPERATURE RANGES**AT WHICH CHANGES IN PHYSICAL STATE OCCUR**

BOILING POINT	: Not applicable
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MELTING POINT	: Not applicable
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FLASH POINT	: Not applicable
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FLAMMABILITY OR EXPLOSIVE PROPERTIES

FLAMMABILITY OR EXPLOSIVE	: Not applicable
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LIMITS Not applicable VAPOUR PRESSURE	: Not applicable
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VAPOUR DENSITY	: Not applicable
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DENSITY (SPECIFIC GRAVITY)	: 1.007-1.029 g/ml (3% solution, at 25 °C)
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SOLUBILITY**WATER SOLUBILITY** Miscible

SOLVENT SOLUBILITY	: No information available
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PARTITION COEFFICIENT: n-	: No information available
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OCTANOL / WATER (log pow)

AUTO-IGNITION TEMPERATURE	: No information available
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DECOMPOSITION TEMPERATURE	: No information available
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ODOUR THRESHOLD	: No information available
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EVAPORATION RATE	: No information available
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FLAMMABILITY (SOLID, GAS)	: No information available
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VISCOSITY	: No information available
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OTHER DATA	: No information available
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10. STABILITY AND REACTIVITY

CHEMICAL STABILITY	: Stable at ambient temperatures
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POSSIBILITY OF HAZARDOUS	: None.
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REACTIONS CONDITIONS TO AVOID	: Strong acid.
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INCOMPATIBLE MATERIALS	: Strong acid.
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HAZARDOUS DECOMPOSITION	: None.
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PRODUCTS OTHERS	: No information available
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11. TOXICOLOGICAL INFORMATION

ULTRA CLEAN US40

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ACUTE EFFECTS	: See section 4 for symptoms of exposure and effects. Likely routes of exposure are skin, eyes, and inhalation
ACUTE TOXICITY DATA	: No information available
CHRONIC EFFECTS ON HUMANS	: No information available
MUTAGENICITY	: No information available (GERM CELL MUTAGENICITY)
CARCINOGENICITY	: No information available

REPRODUCTIVE TOXICITY	: No information available
SPECIFIC TARGET ORGAN TOXICITY	
- SINGLE EXPOSURE	: No information available
- REPEATED EXPOSURE	: No information available
ASPIRATION HAZARD	: No information available
OTHER INFORMATION	: No information available

Avoid swallowing and long term skin contact

12. ECOLOGICAL INFORMATION

ECOTOXICITY	: No information available
PERSISTENCE / DEGRADABILITY	: No information available
MOBILITY IN SOIL	: No information available
BIOACCUMULATIVE POTENTIAL	: No information available
OTHER ADVERSE EFFECTS	: No specific data available. However, due to the nature of the product, discharge of untreated product especially from point sources may cause damage to the aquatic environment. Low concentrations act as plant nutrients.

13. DISPOSAL CONSIDERATIONS

Dilute, neutralize and disposal in accordance with all applicable regulations.

14. TRANSPORT INFORMATION

Follow all regulations in your country or region

INTERNATIONAL REGULATIONS	
UN CLASS / UN NUMBER	: No information available
SPECIAL PRECAUTIONS FOR USER	: Review "ACCIDENTAL RELEASE MEASURES (Section 6)". Review "HANDLING AND STORAGE (Section 7)". Ensure containers without breakage or leakage. Ensure containers tightly fixed.

Follow all regulations in your country or region.

15. REGULATORY INFORMATION

Follow all regulations in your country or region. PENC 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.

16. OTHER INFORMATION

All data are based on our current knowledge. They do not indicate any warranty or representation. We disclaim all liability relating to use of material as this is beyond our control.