

Product Name: WYROL 2  
Revision Date: 19 Jul 2021  
Issue Date: 21 JAN 2016

SDS Number:7076368XCN  
Version:4.01

## SAFETY DATA SHEET

### SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

#### PRODUCT

**Product Name:** WYROL 2  
**Product Description:** Hydrocarbons and Additives  
**Product Code:** 201570204525, 7059370  
**Recommended Use:** Metal processing fluid additive

#### COMPANY IDENTIFICATION

**Supplier:** ExxonMobil (China) Investment Co., Ltd.  
17/F., Metro Tower  
30 Tian Yao Qiao Road  
Shanghai 200030 China

**24 Hour Emergency Telephone** (+86) 0532-83889090  
**Supplier General Contact** (+86) 021-34116000  
**E-Mail** consumerservice@mobil.com.cn  
**FAX** (+86) 021-23515968

**Supplier:** EXXONMOBIL CHEMICAL SERVICES (SHANGHAI) CO., LTD  
1099 Zixing Road  
Minhang District  
Shanghai, CN China

**24 Hour Emergency Telephone** (+86) 0532-83889090  
**Supplier General Contact** (+86) 021-34116000  
**E-Mail** consumerservice@mobil.com.cn  
**FAX** (+86) 021-23515968

### SECTION 2 HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW:

**Physical State:** Liquid **Colour:** Pale Yellow **Odour:** Characteristic  
H227: Combustible liquid. H304: May be fatal if swallowed and enters airways. H411: Toxic to aquatic life with long lasting effects.  
Material can accumulate static charges which may cause an ignition. Material can release vapours that readily form flammable mixtures. Vapour accumulation could flash and/or explode if ignited. Combustible.

Product Name: WYROL 2  
Revision Date: 19 Jul 2021  
Issue Date: 21 JAN 2016

SDS Number:7076368XCN  
Version:4.01

Repeated exposure may cause skin dryness or cracking. May be irritating to the skin, nose, throat, and lungs.

The hazard classification for this material is in accordance with the General Rules for Classification and Hazard Communication of Chemicals (GB 13690-2009).

#### CLASSIFICATION:

Flammable liquid: Category 4.  
Aspiration toxicant: Category 1.  
Acute aquatic toxicant: Category 2. Chronic aquatic toxicant: Category 2.

#### LABEL:

Symbol:



Signal Word: Danger

#### Hazard Statements:

Physical: H227: Combustible liquid.  
Health: H304: May be fatal if swallowed and enters airways.  
Environmental: H411: Toxic to aquatic life with long lasting effects.

#### Precautionary Statements:

Prevention: P210: Keep away from flames and hot surfaces. No smoking. P273: Avoid release to the environment. P280: Wear protective gloves and eye / face protection.  
Response: P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P331: Do NOT induce vomiting. P370 + P378: In case of fire: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish. P391: Collect spillage.  
Storage: P403 + P235: Store in a well-ventilated place. Keep cool. P405: Store locked up.  
Disposal: P501: Dispose of contents and container in accordance with local regulations.

Product Name: WYROL 2  
Revision Date: 19 Jul 2021  
Issue Date: 21 JAN 2016

SDS Number:7076368XCN  
Version:4.01

## Other hazard information:

### PHYSICAL / CHEMICAL HAZARDS

Material can accumulate static charges which may cause an ignition. Material can release vapours that readily form flammable mixtures. Vapour accumulation could flash and/or explode if ignited. Combustible.

### HEALTH HAZARDS

Repeated exposure may cause skin dryness or cracking. May be irritating to the skin, nose, throat, and lungs.

### ENVIRONMENTAL HAZARDS

No additional hazards.

**NOTE:** This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

This material is defined as a mixture.

### Hazardous Substance(s) or Complex Substance(s) required for disclosure

Name	CAS#	Concentration*	GHS Hazard Codes
2,6-DI-TERT-BUTYL-P-CRESOL	128-37-0	< 25%	H400(M factor 1), H410(M factor 1)
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT	64742-47-8	70 - < 80%	H227, H304

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## SECTION 4 FIRST AID MEASURES

### FIRST AID:

#### INHALATION

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

#### SKIN CONTACT

Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated

Product Name: WYROL 2  
Revision Date: 19 Jul 2021  
Issue Date: 21 JAN 2016

SDS Number:7076368XCN  
Version:4.01

---

clothing before reuse.

## EYE CONTACT

Flush thoroughly with water. If irritation occurs, get medical assistance.

## INGESTION

Seek immediate medical attention. Do not induce vomiting.

## IMPORTANT SYMPTOMS AND HEALTH EFFECTS

Redness, dry cracking of skin.

## ADVICE TO PROTECT RESCUER

Please refer to Section 8 for personal protection information.

## NOTE TO PHYSICIAN

If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

## SECTION 5 FIRE FIGHTING MEASURES

### EXTINGUISHING MEDIA

**Appropriate Extinguishing Media:** Use water fog, foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames.

**Inappropriate Extinguishing Media:** Straight streams of water

### SPECIAL HAZARD WHEN ON FIRE

In case of fire, see below for hazardous combustion products. Containers exposed to excessive heat from a fire may rupture.

### FIRE FIGHTING INSTRUCTIONS AND PROTECTIVE MEASURES

#### FIRE FIGHTING

**Fire Fighting Instructions:** Evacuate area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

**Unusual Fire Hazards:** Combustible. Pressurised mists may form a flammable mixture.

**Hazardous Combustion Products:** Aldehydes, Incomplete combustion products, Oxides of carbon, Smoke, Fume, Sulphur oxides

Product Name: WYROL 2  
Revision Date: 19 Jul 2021  
Issue Date: 21 JAN 2016

SDS Number:7076368XCN  
Version:4.01

## FLAMMABILITY PROPERTIES

**Flash Point [Method]:** >70 C (158 F) [ ASTM D-93]

**Flammable Limits (Approximate volume % in air):** LEL: N/D UEL: N/D

**Autoignition Temperature:** N/D

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

### PROTECTIVE MEASURES

Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas if required, due to toxicity or flammability of the material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

For emergency responders: Respiratory protection: half-face or full-face respirator with filter(s) for organic vapor and, when applicable, H<sub>2</sub>S, or Self Contained Breathing Apparatus (SCBA) can be used depending on the size of spill and potential level of exposure. If the exposure cannot be completely characterized or an oxygen deficient atmosphere is possible or anticipated, SCBA is recommended. Work gloves that are resistant to aromatic hydrocarbons are recommended. Note: gloves made of polyvinyl acetate (PVA) are not water-resistant and are not suitable for emergency use. Chemical goggles are recommended if splashes or contact with eyes is possible. Small spills: normal antistatic work clothes are usually adequate. Large spills: full body suit of chemical resistant, antistatic material is recommended.

### ENVIRONMENTAL PRECAUTIONS

Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

### SPILL MANAGEMENT

**Land Spill:** Stop leak if you can do so without risk. Do not touch or walk through spilled material. Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

**Water Spill:** Stop leak if you can do so without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this

Product Name: WYROL 2  
 Revision Date: 19 Jul 2021  
 Issue Date: 21 JAN 2016

SDS Number:7076368XCN  
 Version:4.01

material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

**SECTION 7 HANDLING AND STORAGE**

**HANDLING**

Avoid breathing mists or vapour. Avoid contact with skin. Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). When the material is handled in bulk, an electrical spark could ignite any flammable vapors from liquids or residues that may be present (e.g., during switch-loading operations). Use proper bonding and/or earthing procedures. However, bonding and earthing may not eliminate the hazard from static accumulation. Consult local applicable standards for guidance. Additional references include American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended Practice on Static Electricity) or CENELEC CLC/TR 50404 (Electrostatics - Code of practice for the avoidance of hazards due to static electricity).

**Static Accumulator:** This material is a static accumulator.

**STORAGE**

The type of container used to store the material may affect static accumulation and dissipation. Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area. Storage containers should be earthed and bonded. Fixed storage containers, transfer containers and associated equipment should be grounded and bonded to prevent accumulation of static charge.

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

**EXPOSURE LIMIT VALUES**

Exposure limits/standards (Note: Exposure limits are not additive)

Substance Name	Form	Limit/Standard			Note	Source	Year
2,6-DI-TERT-BUTYL-P-CRESOL	Inhalable fraction and vapour	TWA	2 mg/m <sup>3</sup>			ACGIH	2020
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT	Vapour.	RCP - TWA	1200 mg/l	159 ppm	Total Hydrocarbons	ExxonMobil	2009

Product Name: WYROL 2  
Revision Date: 19 Jul 2021  
Issue Date: 21 JAN 2016

SDS Number:7076368XCN  
Version:4.01

---

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

## ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

Use explosion-proof ventilation equipment to stay below exposure limits.

## PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

**Respiratory Protection:** If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

Half-face filter respirator Particulate filter when appropriate.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

**Hand Protection:** Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

If prolonged or repeated contact is likely, chemical-resistant gloves are recommended. If contact with forearms is likely, wear gauntlet-style gloves. Nitrile

**Eye Protection:** If contact is likely, safety glasses with side shields are recommended. Chemical type goggles should be worn during misting operations.

**Skin and Body Protection:** Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

If prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended.

**Specific Hygiene Measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that

Product Name: WYROL 2  
Revision Date: 19 Jul 2021  
Issue Date: 21 JAN 2016

SDS Number:7076368XCN  
Version:4.01

cannot be cleaned. Practice good housekeeping.

## ENVIRONMENTAL CONTROLS

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

### GENERAL INFORMATION

Physical State: Liquid  
Colour: Pale Yellow  
Odour: Characteristic  
Odour Threshold: N/D

### IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Relative Density (at 15.6 °C): 0.841 [ASTM D4052]  
Flash Point [Method]: >70 °C (158 °F) [ASTM D-93]  
Flammable Limits (Approximate volume % in air): LEL: N/D UEL: N/D  
Flammability (Solid, Gas): N/A  
Autoignition Temperature: N/D  
Boiling Point / Range: N/D  
Vapour Density (Air = 1): > 2 at 101 kPa [Estimated]  
Vapour Pressure: < 0.1 kPa (0.75 mm Hg) at 20 °C [Estimated]  
Evaporation Rate (n-butyl acetate = 1): N/D  
pH: N/A  
Log Pow (n-Octanol/Water Partition Coefficient): N/D  
Solubility in Water: Negligible  
Viscosity: 2.9 cSt (2.9 mm<sup>2</sup>/sec) at 40 °C [ASTM D 445]  
Freezing Point: N/D  
Melting Point: N/A  
Decomposition Temperature: N/D  
Oxidizing Properties: See Hazards Identification Section.

### OTHER INFORMATION

## SECTION 10 STABILITY AND REACTIVITY



Product Name: WYROL 2  
 Revision Date: 19 Jul 2021  
 Issue Date: 21 JAN 2016

SDS Number:7076368XCN  
 Version:4.01

**STABILITY:** Material is stable under normal conditions.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Hazardous polymerization will not occur.

**CONDITIONS TO AVOID:** Open flames and high energy ignition sources.

**MATERIALS TO AVOID:** Strong oxidisers

**HAZARDOUS DECOMPOSITION PRODUCTS:** Material does not decompose at ambient temperatures.

**SECTION 11 TOXICOLOGICAL INFORMATION**

**INFORMATION ON TOXICOLOGICAL EFFECTS**

<u>Hazard Class</u>	<u>Conclusion / Remarks</u>
<b>Inhalation</b>	
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.
Irritation: No end point data for material.	Elevated temperatures or mechanical action may form vapours, mist, or fumes which may be irritating to the eyes, nose, throat, or lungs.
<b>Ingestion</b>	
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.
<b>Skin</b>	
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.
Skin Corrosion/Irritation: No end point data for material.	May dry the skin leading to discomfort and dermatitis. Based on assessment of the components.
<b>Eye</b>	
Serious Eye Damage/Irritation: No end point data for material.	May cause mild, short-lasting discomfort to eyes. Based on assessment of the components.
<b>Sensitisation</b>	
Respiratory Sensitization: No end point data for material.	Not expected to be a respiratory sensitizer.
Skin Sensitization: No end point data for material.	Not expected to be a skin sensitizer. Based on assessment of the components.
<b>Aspiration:</b> Data available.	May be fatal if swallowed and enters airways. Based on physico-chemical properties of the material.
<b>Germ Cell Mutagenicity:</b> No end point data for material.	Not expected to be a germ cell mutagen. Based on assessment of the components.
<b>Carcinogenicity:</b> No end point data for material.	Not expected to cause cancer. Based on assessment of the components.
<b>Reproductive Toxicity:</b> No end point data for material.	Not expected to be a reproductive toxicant. Based on assessment of the components.
<b>Lactation:</b> No end point data for material.	Not expected to cause harm to breast-fed children.

Product Name: WYROL 2  
Revision Date: 19 Jul 2021  
Issue Date: 21 JAN 2016

SDS Number:7076368XCN  
Version:4.01

Specific Target Organ Toxicity (STOT)	
Single Exposure: No end point data for material.	Not expected to cause organ damage from a single exposure.
Repeated Exposure: No end point data for material.	Not expected to cause organ damage from prolonged or repeated exposure. Based on assessment of the components.

## OTHER INFORMATION

### For the product itself:

Vapour concentrations above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anaesthetic and may have other central nervous system effects. Prolonged and/or repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

### IARC Classification:

The following ingredients are cited on the lists below: None.

--REGULATORY LISTS SEARCHED--

1 = IARC 1

2 = IARC 2A

3 = IARC 2B

## SECTION 12 ECOLOGICAL INFORMATION

The information given is based on data for the material, components of the material, or for similar materials, through the application of bridging principals.

### ECOTOXICITY

Material -- Expected to be toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

### PERSISTENCE AND DEGRADABILITY

#### Atmospheric Oxidation:

Hydrocarbon component -- Expected to degrade rapidly in air

### BIOACCUMULATION POTENTIAL

A component -- Has the potential to bioaccumulate.

Hydrocarbon component -- Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

Product Name: WYROL 2  
Revision Date: 19 Jul 2021  
Issue Date: 21 JAN 2016

SDS Number:7076368XCN  
Version:4.01

## MOBILITY

Hydrocarbon component -- Highly volatile, will partition rapidly to air. Not expected to partition to sediment and wastewater solids.

A component -- Low water solubility, expected to sink and migrate into the sediment. Expected to partition to sediment and wastewater solids.

## OTHER ECOLOGICAL INFORMATION

VOC:

## SECTION 13 DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal. Waste producers need to assess the actual process used when generating the waste and its contaminants in order to assign the proper waste disposal code(s).

## DISPOSAL RECOMMENDATIONS

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

**Empty Container Warning** Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

## SECTION 14 TRANSPORT INFORMATION

### China List of Dangerous Goods (GB 12268 - 2012)

**Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N. O. S. (2,6-DI-TERT-BUTYL-P-CRESOL)

**Hazard Class:** 9

**UN Number:** 3082

**Packing Group:** III

### INTERNATIONAL CLASSIFICATION FOR TRANSPORT

#### SEA (IMDG)

**Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N. O. S. (2,6-DI-TERT-BUTYL-P-CRESOL)

**Hazard Class & Division:** 9

Product Name: WYROL 2  
Revision Date: 19 Jul 2021  
Issue Date: 21 JAN 2016

SDS Number:7076368XCN  
Version:4.01

**EMS Number:** F-A, S-F  
**UN Number:** 3082  
**Packing Group:** III  
**Marine Pollutant:** No  
**Label(s):** 9  
**Transport Document Name:** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, PG III

Footnote: Not subject to the provisions of UN3082 Environmentally hazardous substances liquid, n.o.s., if shipped in quantities of 5 liters or less per single or inner combination packaging as per IMDG code 2.10.2.7.

## AIR (IATA)

**Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,6-DI-TERT-BUTYL-P-CRESOL)  
**Hazard Class & Division:** 9  
**UN Number:** 3082  
**Packing Group:** III  
**Label(s) / Mark(s):** 9, EHS  
**Transport Document Name:** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, PG III

[Footnote: Not subject to the provisions of UN3082 Environmentally hazardous substances liquid, n.o.s., if shipped in quantities of 5 liters or less per single or inner combination packaging as per Special Provision A197.]

## SECTION 15 REGULATORY INFORMATION

The hazard classification for this material is in accordance with the General Rules for Classification and Hazard Communication of Chemicals (GB 13690-2009).

### REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS

**The General Rules for preparation of precautionary label for Chemicals (GB 15258-2009):**  
Regulated

**Law of the People's Republic of China on Prevention and Control of Environmental Pollution by Solid Waste:** See Disposal Considerations section.

**Listed or exempt from listing/notification on the following chemical inventories :** AIIC, DSL, ENCS, IECSC, ISHL, KECI, PICCS, TCSI, TSCA

## SECTION 16 OTHER INFORMATION

Product Name: WYROL 2  
Revision Date: 19 Jul 2021  
Issue Date: 21 JAN 2016

SDS Number:7076368XCN  
Version:4.01

N/D = Not determined, N/A = Not applicable

**KEY TO THE H-CODES CONTAINED IN SECTION 3 OF THIS DOCUMENT (for information only):**

H227: Combustible liquid; Flammable Liquid, Cat 4

H304: May be fatal if swallowed and enters airways; Aspiration, Cat 1

H400: Very toxic to aquatic life; Acute Env Tox, Cat 1

H410: Very toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 1

**THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:**

EXXONMOBIL CHEMICAL SERVICES (SHANGHAI) CO., LTD: Section 01: Supplier Mailing Address information was added.

GHS Environmental Symbol information was modified.

GHS Health Symbol information was modified.

Hazard Identification: AP - Hazards Statement - GHS information was deleted.

Hazard Identification: Health Hazards information was modified.

Hazard Identification: Physical/Chemical Hazard information was modified.

Hazard Identification: US - Hazards Statement - GHS information was added.

Section 01: Company Contact Methods information was modified.

Section 01: Preparation Date information was added.

Section 01: Product Identification Product Name information was added.

Section 01: Product Identification Product Name information was deleted.

Section 01: Product Intended Use information was modified.

Section 04: First Aid Notes information was added.

Section 04: First Aid Notes information was deleted.

Section 04: Symptoms and Effects information was added.

Section 05: Fire Fighting Measures - Fire Fighting Instruction information was modified.

Section 06: Protective Measures information was modified.

Section 07: Handling and Storage - Handling information was modified.

Section 07: Handling and Storage - Storage Phrases information was modified.

Section 08: Exposure Limits Table information was modified.

Section 08: Eye Protection information was modified.

Section 09: China Flash Point C(F) information was modified.

Section 09: Relative Density information was modified.

Section 09: Vapour Pressure information was added.

Section 11 Substance Toxicology table information was deleted.

Section 12: Ecological Information - Acute Aquatic Toxicity information was added.

Section 12: Ecological Information - Acute Aquatic Toxicity information was deleted.

Section 12: VOC information was modified.

Section 12: information was modified.

Section 13: National Catalogue of Hazardous Wastes information was deleted.

Section 13: Disposal Recommendations - Note information was modified.

Section 14: IATA Footnote information was added.

Section 14: IMDG Footnote information was added.

Section 14: Proper Shipping Name information was modified.

Section 15: China Hazard Statement information was modified.

Section 15: National Chemical Inventory Listing information was modified.

Product Name: WYROL 2  
Revision Date: 19 Jul 2021  
Issue Date: 21 JAN 2016

SDS Number:7076368XCN  
Version:4.01

---

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