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version.s.

SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: WYROL 12

Product Description: Hydrocarbons and Additives Product Code: 201570204515, 661843

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 consumers ervice@mobil.com.cn

FAX (+86) 021-23515968

SECTION 2 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Physical State: Liquid Colour: Colourless Odour: Characteristic

H319: Causes serious eye irritation. H400: Very toxic to aquatic life. H411: Toxic to aquatic

life with long lasting effects.

May be irritating to the skin, nose, throat, and lungs.



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

CLASSIFICATION:

Eye irritation: Category 2A.

Acute aquatic toxicant: Category 1. Chronic aquatic toxicant: Category 2.

LABEL: Symbol:



Signal Word: Warning

Hazard Statements:

Health: H319: Causes serious eye irritation.

Environmental: H400: Very toxic to aquatic life. H411: Toxic to aquatic life with long lasting

effects.

Precautionary Statements:

Prevention: P264: Wash skin thoroughly after handling. P273: Avoid release to the environment. P280: Wear eye / face protection.

Response: P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313: If eye irritation persists: Get medical advice/attention. P391: Collect spillage.

Disposal: P501: Dispose of contents and container in accordance with local regulations.

Other hazard information:



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PHYSICAL / CHEMICAL HAZARDS

No significant hazards.

HEALTH HAZARDS

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
1-DODECANOL	112-53-8	50 - < 60%	H319(2A), H400(M factor 1), H411
2, 6-DI-TERT-BUTYL-P-CRESOL	128-37-0	1 - < 5%	H400(M factor 1), H410(M factor 1)
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT	64742-47-8	5 - < 10%	Н227, Н304
TETRADECANOL	112-72-1	10 - < 20%	H319(2A), H401, H410(M factor 1)

^{*} 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.

EYE CONTACT

Flush thoroughly with water for at least 15 minutes. Get medical assistance.

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INGESTION

Seek immediate medical attention. Do not induce vomiting.

IMPORTANT SYMPTOMS AND HEALTH EFFECTS

Eye pain, redness, tearing, swelling of eyelids, itching.

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 (CO2) 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: Pressurised mists may form a flammable mixture. Hazardous material. Firefighters should consider protective equipment indicated in Section 8.

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

FLAMMABILITY PROPERTIES

Flash Point [Method]: >95 C (203 F) [ASTM D-93]

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

Autoignition Temperature: 220 C (428 F) - 340 C (644 F)



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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.

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 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 eyes. Small metal particles from machining may cause abrasion of the skin and may predispose to dermatitis. 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



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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. Do not store in open or unlabelled containers.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES

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

Substance Name	Form	Limit/St	andard		Note	Source	Year
2, 6-DI-TERT-BUTYL-P-CRESOL	Inhalabl	TWA	2 mg/m3			ACGIH	2020
	е						
	fraction						
	and						
	vapour						
DISTILLATES (PETROLEUM),	Vapour.	RCP -	1200 mg/m3	164 ppm	Total	ExxonMobil	2009
HYDROTREATED LIGHT'		TWA			Hydrocarbo		
					ns		

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:

Adequate ventilation should be provided so that exposure limits are not exceeded.

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



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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, Viton

Eye Protection: Chemical goggles are recommended.

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 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: Colourless

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Odour: Characteristic
Odour Threshold: N/D

IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Relative Density (at 15 C): 0.85

Flash Point [Method]: >95 C (203 F) [ASTM D-93]

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

Flammability (Solid, Gas): N/A

Autoignition Temperature: 220 C (428 F) - 340 C (644 F)

Boiling Point / Range: 192 C (378 F) - 320 C (608 F) [Estimated]

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: 8.3 cSt (8.3 mm2/sec) at 40 C

Freezing Point: N/D Melting Point: N/A

Decomposition Temperature: N/D

Oxidizing Properties: See Hazards Identification Section.

OTHER INFORMATION

Pour Point: 15 C (59 F) [ASTM D97]

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Material is stable under normal conditions.

POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization will not occur.

CONDITIONS TO AVOID: Excessive heat. High energy sources of ignition.

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>	
Inhalation		
Acute Toxicity: No end point data for	Minimally Toxic. Based on assessment of the components.	



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material.			
Irritation: No end point data for	Elevated temperatures or mechanical action may form		
material.	vapours, mist, or fumes which may be irritating to the		
	eyes, nose, throat, or lungs.		
Ingestion			
Acute Toxicity: No end point data for	Minimally Toxic. Based on assessment of the components.		
material.			
Skin			
Acute Toxicity: No end point data for	Minimally Toxic. Based on assessment of the components.		
material.			
Skin Corrosion/Irritation: No end point	Negligible irritation to skin at ambient temperatures.		
data for material.	Based on assessment of the components.		
Eye			
Serious Eye Damage/Irritation: No end	Irritating and will injure eye tissue. Based on assessment		
point data for material.	of the components.		
Sensitisation			
Respiratory Sensitization: No end point	Not expected to be a respiratory sensitizer.		
data for material.			
Skin Sensitization: No end point data	Not expected to be a skin sensitizer. Based on assessment		
for material.	of the components.		
Aspiration: Data available.	Not expected to be an aspiration hazard. Based on physico-		
	chemical properties of the material.		
Germ Cell Mutagenicity: No end point	Not expected to be a germ cell mutagen. Based on assessment		
data for material.	of the components.		
Carcinogenicity: No end point data for	Not expected to cause cancer. Based on assessment of the		
material.	components.		
Reproductive Toxicity: No end point	Not expected to be a reproductive toxicant. Based on		
data for material.	assessment of the components.		
Lactation: No end point data for	Not expected to cause harm to breast-fed children.		
material.			
Specific Target Organ Toxicity (STOT)			
Single Exposure: No end point data for	Not expected to cause organ damage from a single exposure.		
material.			
Repeated Exposure: No end point data	Not expected to cause organ damage from prolonged or		
for material.	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. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

IARC Classification:



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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

Biodegradation:

Majority of components -- Expected to be readily biodegradable.

Atmospheric Oxidation:

Hydrocarbon component -- Expected to degrade rapidly in air

BIOACCUMULATION POTENTIAL

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

MOBILITY

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

A component — Expected to remain in water or migrate through soil.

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



Referring to GB/T 16483 and GB/T 17519 $\,$

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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. (Mixed primary

alcohols (C10-16))
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. (Mixed primary

alcohols (C10-16))

Hazard Class & Division: 9

EMS Number: F-A, S-F UN Number: 3082 Packing Group: III Marine Pollutant: Yes

Label(s): 9

Transport Document Name: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Mixed primary alcohols (C10-16)), 9, PG III, MARINE POLLUTANT

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. (Mixed primary

alcohols (C10-16))

Hazard Class & Division: 9

UN Number: 3082 Packing Group: III Product Name: WYROL 12 Revision Date: 28 May 2021 Issue Date: 21 January 2016

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Label(s) / Mark(s): 9, EHS

Transport Document Name: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Mixed primary alcohols (C10-16)), 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

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

H319(2A): Causes serious eye irritation; Serious Eye Damage/Irr, Cat 2A

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

H401: Toxic to aquatic life; Acute Env Tox, Cat 2

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

H411: Toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 2

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

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

Section 01: Company Contact Methods information was modified.

Section 08: Exposure Limits Table information was modified.

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

Section 13: Disposal Recommendations - Note information was modified.



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