

MATERIAL SAFETY DATA SHEET

MSDS No.: N/A

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

A. Product Name: HYJET IV-A PLUS
Product Description: Synthetic Base Stocks and Additives
Product Code: 201550303010, 430314

B. Recommended Use of Product and Restrictions in Use.
Recommended use of the product: Hydraulic fluids and additives, Aviation hydraulic fluid
Restrictions in Use: This product is not recommended for any industrial, professional or consumer use other than the identified uses above.

C. Manufacturer/Supplier information:
For details contact
Mobil Korea Lube Oil Inc.
Level 22, Seoul Square bd., 416
Hangang-daero, Jung-gu,
Seoul Republic of Korea

Emergency Response Number	00-308-13-2549 / +1-703-527-3887
Supplier General Contact	82-2-750-8700
FAX	82-2-750-8751

SECTION 2 HAZARDS IDENTIFICATION

This material is hazardous according to regulatory guidelines (see (M)SDS Section 15).

A. Hazard Classification:

Acute oral toxicant: Category 4. Eye irritation: Category 2A. Reproductive toxicant (developmental): Category 2. Reproductive toxicant (fertility): Category 2. Specific target organ toxicant (repeated exposure): Category 2.

Chronic aquatic toxicant: Category 2.

B. Label Elements Including Precautionary Statements:

Hazard Pictogram:

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Signal Word: Warning

Hazard Statements:

Health: H302: Harmful if swallowed. H319: Causes serious eye irritation. H361: Suspected of damaging fertility or the unborn child. H373: May cause damage to organs through prolonged or repeated exposure. Adrenal, Liver

Environmental: H411: Toxic to aquatic life with long lasting effects.

Precautionary Statements:

Prevention: P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. P260: Do not breathe mist / vapours. P264: Wash skin thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P273: Avoid release to the environment. P280: Wear protective gloves and protective clothing. P280: Wear eye protection/face protection. P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response: P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P313: IF exposed or concerned: Get medical advice/ attention. P314: Get medical advice/attention if you feel unwell. P330: Rinse mouth. P337 + P313: If eye irritation persists: Get medical advice/attention. P391: Collect spillage.

Storage: P405: Store locked up.

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

C. Other Hazards Which Are Not Included In The Classification Criteria

Physical / Chemical Hazards

No significant hazards.

Health Hazards

High-pressure injection under skin may cause serious damage. When heated, the vapors/fumes given off may cause respiratory tract irritation.

Environmental Hazards

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No additional hazards.

NFPA Hazard ID: Health: 2 Flammability: 1 Reactivity: 0
 HMIS Hazard ID: Health: 2* Flammability: 1 Reactivity: 0

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
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This material is defined as a mixture.

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

Name	Other Name	CAS # or Id. No.	Concentration*	GHS Hazard Codes
2,6-DI-TERT-BUTYL-P-CRESOL	-	KE-03079	0.1 - < 1%	H400(M factor 1), H410(M factor 1)
NAPHTHALENESULFONIC ACID, DINONYL-, CALCIUM SALT	-	KE-11963	0.1 - < 1%	H315, H319(2A), H317
PHENOL, ISOPROPYLATED, PHOSPHATE (3:1) [TRIPHENYL PHOSPHATE > 5%]	-	KE-28215	10 - < 20%	H361(D), H361(F), H373, H401, H410(M factor 1)
TRIBUTYL PHOSPHATE	-	KE-34036	70 - < 80%	H302, H315, H402, H412

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

SECTION 4	FIRST AID MEASURES
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A. Eye Contact

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

B. Skin Contact

Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

C. Inhalation

Immediately remove from further exposure. Get immediate medical assistance. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. Give

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supplemental oxygen, if available. If breathing has stopped, assist ventilation with a mechanical device.

D. Ingestion

Seek immediate medical attention. Do not induce vomiting.

E. Other note to physician

None

Acute and Delayed Symptoms/Effects

See Toxicological Section

Pre-existing Medical Conditions Which May Be Aggravated By Exposure

None.

SECTION 5	FIRE FIGHTING MEASURES
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Flammability Properties

Flash Point [Method]: 160° C (320° F) [ASTM D-92]

Autoignition Temperature: 400° C (752° F)

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

A. Suitable (and Unsuitable) 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

B. Specific Hazards arising from the Chemical

Unusual Fire Hazards: May generate irritating and harmful gases/vapors/fumes when burning. Pressurized mists may form a flammable mixture. Hazardous material. Firefighters should consider protective equipment indicated in Section 8.

Hazardous Combustion Products: Aldehydes, Incomplete combustion products, Nitrogen oxides, Phosphorus oxides, Smoke, Fume, Sulfur oxides

C. Special Protective Equipment and Precautions for Fire-fighters

Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters 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.

SECTION 6	ACCIDENTAL RELEASE MEASURES
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A. Personal Precautions and Protective Equipment

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.

B. Environmental Precautions and Protective Procedure

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

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

C. Methods and Materials for Containment and Cleaning Up

Land Spill: Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do it without risk. Prevent entry into waterways, sewer, basements or confined areas. Ventilate the area. Recover by pumping or with suitable absorbent. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Water Spill: Stop leak if you can do it without risk. Material will sink. Remove material, as much as possible, using mechanical equipment.

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
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A. Precautions for Safe Handling

Avoid all personal contact. Avoid vapors from heated materials to prevent exposure to potentially toxic/irritating fumes. Prevent small spills and leakage to avoid slip hazard.

Static Accumulator: This material is not a static accumulator.

B. Conditions for Safe Storage

Do not store in open or unlabelled containers.

SECTION 8	EXPOSURE CONTROLS AND PERSONAL PROTECTION
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A. Exposure Limit Values, Biological Limit Values

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

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Substance Name	Form	Limit / Standard			Note	Source	Year
2,6-DI-TERT-BUTYL-P-CRESOL	Inhalable fraction and vapor	TWA	2 mg/m3			Korea OELs	2018
2,6-DI-TERT-BUTYL-P-CRESOL	Inhalable fraction and vapor	TWA	2 mg/m3			ACGIH	2020
TRIBUTYL PHOSPHATE	Inhalable fraction and vapor	TWA	2.5 mg/m3			Korea OELs	2018
TRIBUTYL PHOSPHATE	Inhalable fraction and vapor	TWA	5 mg/m3			ACGIH	2020

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

No biological limits allocated.

B. Appropriate 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.

C. Personal Protective Equipment

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

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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:
No protection is ordinarily required under normal conditions of use and with adequate ventilation.
Organic vapor, Particulate

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/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Eye Protection: Chemical goggles are recommended.

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:
Chemical resistant gloves are recommended. Nitrile

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:
Chemical/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.

A. Appearance

Physical State: Liquid

Form: Clear

Color: Violet

B. Odor: Sweet

C. Odor Threshold: N/D

D. pH: N/D

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- E. Melting Point: N/D
 - Freezing Point: N/D
 - F. Initial Boiling Point / Range: 288° C (550° F)
 - G. Flash Point [Method]: 160° C (320° F) [ASTM D-92]
 - H. Evaporation Rate (n-butyl acetate = 1): N/D
 - I. Flammability (Solid, Gas): N/A
 - J. Flammable Limits (Approximate volume % in air): LEL: N/D UEL: N/D
 - K. Vapor Pressure: 0.067 kPa (0.5 mm Hg) at 20 ° C
 - L. Solubility in Water: Negligible
 - M. Vapor Density (Air = 1): N/D
 - N. Relative Density (at 15 ° C): 1.001
 - O. Log Pow (n-Octanol/Water Partition Coefficient): N/D
 - P. Autoignition Temperature: 400° C (752° F)
 - Q. Decomposition Temperature: N/D
 - R. Viscosity: 10.1 cSt (10.1 mm²/sec) at 40 ° C | 3.5 cSt (3.5 mm²/sec) at 100° C
 - S. Molecular Weight: N/D

Other Information

Pour Point: < -62° C (-80° F)

SECTION 10	STABILITY AND REACTIVITY
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A. Chemical Stability and Possibility of Hazard Reactions

Chemical Stability: Material is stable under normal conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

B. Conditions to Avoid: Excessive heat.

C. Incompatible Materials: Strong oxidizers

D. Hazardous Decomposition Products: Material does not decompose at ambient temperatures.

SECTION 11	TOXICOLOGICAL INFORMATION
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A. Information on Likely Routes of Exposure

No data available

B. Information on Health Hazards

Acute Toxicity (Inhalation):

Product

No end point data for material. Minimally Toxic. Based on assessment of the components.

Inhalation Irritation: No end point data for material. Elevated temperatures or

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mechanical action may form vapors, mist, or fumes which may be irritating to the eyes, nose, throat, or lungs.

Acute Toxicity (Ingestion):

Product

(Rat) LD50 1.671 g/kg Slightly toxic. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 401

Component

TRIBUTYL PHOSPHATE Oral Lethality: LD50 1552 ml/kg (Rat)

Acute Toxicity (Dermal)

Product

No end point data for material. Minimally Toxic. Based on assessment of the components.

Skin corrosion/irritation

Product

(Rabbit) Data available. Negligible irritation to skin at ambient temperatures. Based on test data for the material. Test(s) equivalent or similar to OECD Guideline 404

Serious eye damage/irritation

Product

(Rabbit) Data available. Irritating and will injure eye tissue. Based on test data for the material and structurally similar materials. Test(s) equivalent or similar to OECD Guideline 405

Respiratory sensitization

Product

No end point data for material. Not expected to be a respiratory sensitizer.

Skin sensitization

Product

No end point data for material. Not expected to be a skin sensitizer. Based on assessment of the components.

Carcinogenicity

Product

No end point data for material. Not expected to cause cancer. Based on assessment of the components.

Germ cell mutagenicity

Product

No end point data for material. Not expected to be a germ cell mutagen. Based on assessment of the components.

Reproductive toxicity

Product

No end point data for material. Caused damage to fertility in laboratory animals, but the relevance to humans is uncertain. Caused damage to the fetus in laboratory animals, but the relevance to humans is uncertain. Based on assessment of the components.

Specific target organ toxicity – single exposure

Product

No end point data for material. Not expected to cause organ damage from a single

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exposure.

Specific target organ toxicity – repeat exposure

Product

No end point data for material. Contains a substance that may cause damage to organs from prolonged or repeated exposure. Based on assessment of the components.

Aspiration hazard

Product

Data available. Not expected to be an aspiration hazard. Based on physico-chemical properties of the material.

Other Information

For the product itself:

Target Organs Repeated Exposure: Adrenal, Liver

Component concentrations in this formulation would not be expected to cause skin sensitization, based on tests of the components, this formulation, or similar formulations.

Contains:

Tributyl phosphate (TBP): Studies in rats have shown an increased incidence of urinary bladder tumors following long-term feeding of TBP in the diet. No bladder tumors were observed in similar studies in mice. The relevance of these findings for humans is uncertain.

Isopropylphenyl phosphate (iPP). Reproductive / developmental toxicity screening studies in rats of products containing high concentrations of iPP adversely affected male and female reproductive performance with significant reductions in fertility and conception indices. Number of rat pups born and live litter size were decreased in groups exposed to the iPP-containing products, while pup mortality was increased.

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.

A. Ecotoxicity

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

Material -- Expected to be harmful to aquatic organisms.

B. Persistence and Degradability

Not determined.

C. Bioaccumulation

Not determined.

D. Mobility

Not determined.

E. Other adverse effects: Not applicable

SECTION 13	DISPOSAL CONSIDERATIONS
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A. Disposal methods

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.

B. Disposal precautions

Dispose of waste at an appropriate treatment & disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Protect the environment. Dispose of used oil at designated sites. Minimize skin contact. Do not mix used oils with solvents, brake fluids or coolants. Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration.

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
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REGULATION ON SHIP-TRANSPORTATION AND STORAGE OF DANGEROUS SUBSTANCES (SEA (IMDG))

- A. UN Number: 3082
- B. Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PHENOL, ISOPROPYLATED, PHOSPHATE (3:1) [TRIPHENYL PHOSPHATE > 5%])
- C. Hazard Class & Division: 9
- D. Packing Group: III
- E. Marine Pollutant: Yes
- F. Special Precautions which a user needs to be aware of, or needs to comply with, in connection

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with transport or conveyance: Refer to the requirement under the Classification of Transport.

EMS Number: F-A, S-F

Label(s): 9

Transport Document Name: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PHENOL, ISOPROPYLATED, PHOSPHATE (3:1) [TRIPHENYL PHOSPHATE > 5%]), 9, PG III

LAND (ADR/RID)

A. UN Number: 3082

B. Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PHENOL, ISOPROPYLATED, PHOSPHATE (3:1) [TRIPHENYL PHOSPHATE > 5%])

C. Hazard Class & Division: 9

D. Packing Group: III

E. Marine pollutants: Only applicable for sea transport

F. Special Precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance: Refer to the requirement under the Classification of Transport.

Classification Code: M6

Hazchem EAC: 3Z

Hazard ID Number: 90

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

AIR (IATA)

A. UN Number: 3082

B. Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (PHENOL, ISOPROPYLATED, PHOSPHATE (3:1) [TRIPHENYL PHOSPHATE > 5%])

C. Hazard Class & Division: 9

D. Packing Group: III

E. Marine pollutants: Only applicable for sea transport

F. Special Precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance: Refer to the requirement under the Classification of Transport.

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

Transport Document Name: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (PHENOL, ISOPROPYLATED, PHOSPHATE (3:1) [TRIPHENYL PHOSPHATE > 5%]), 9, PG III

SECTION 15

REGULATORY INFORMATION

This material is considered hazardous according to Korean GHS classification criteria.

Regulatory Status and Applicable Laws and Regulations

A. Industrial Safety & Health Act : Prohibited, Subject to an Approval for Manufacturing and Controlled Hazardous Substances: None.

B. Chemicals Control Act : Toxic, Banned and Restricted Toxic Chemicals, Authorization substances, Accidental Release Prevention Substances and Priority Existing Chemicals to Registration: None.

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C. ACT ON THE SAFETY CONTROL OF HAZARDOUS SUBSTANCES: Category 4. Class 3 petroleum chemicals–water insoluble liquids

D. Waste Control Act: Waste Oil is a designated waste.

E. Other requirements in domestic and other countries

Listed or exempt from listing/notification on the following chemical inventories : AIIC, DSL, IECSC, TCSI, TSCA

Special Cases:

Inventory	Status
KECI	Restrictions Apply

SECTION 16

OTHER INFORMATION

A. Information sources and references: Sources of information used in preparing this SDS included one or more of the following: results from in house or supplier toxicology studies, CONCAWE Product Dossiers, publications from other trade associations, such as the EU Hydrocarbon Solvents REACH Consortium, U.S. HPV Program Robust Summaries, the EU IUCLID Data Base, U.S. NTP publications, and other sources, as appropriate.

B. The first Issuing date: 24Jul2007

C. Revision number and latest revision date

Revision Number:2

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D. Others

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

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

H302: Harmful if swallowed; Acute Tox Oral, Cat 4

H315: Causes skin irritation; Skin Corr/Irritation, Cat 2

H317: May cause allergic skin reaction; Skin Sensitization, Cat 1

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

H361: Suspected of damaging fertility or the unborn child.; Repro Tox, Cat 2

H361(D): Suspected of damaging the unborn child; Repro Tox, Cat 2 (Develop)

H361(F): Suspected of damaging fertility; Repro Tox, Cat 2 (Fertility)

H373: May cause damage to organs through prolonged or repeated exposure; Target Organ, Repeated, Cat 2

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

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

H402: Harmful to aquatic life; Acute Env Tox, Cat 3

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

H412: Harmful to aquatic life with long lasting effects; Chronic Env Tox, Cat 3

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:MSDS reformatted and Implementation of new GHS adoption according to regulation requirements.

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