

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: Skydrol® 5 Hydraulic Fluid

Product No.: 34100-00, P3410005, P3410000, P3410004, P3410003, P3410001, P3410002, P3410006

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Hydraulic fluid

Uses advised against: None known.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier

Eastman Chemical Company
200 South Wilcox Drive
Kingsport, TN 37660-5280 US
+14232292000

Visit our website at www.EASTMAN.com or email emnmsds@eastman.com

National Supplier

Eastman Chemical B.V.
Fascinatio Boulevard 602-614
2909 Capelle aan den IJssel
The Netherlands
Telephone: (31) 10 2402 111
Fax: (31) 10 2402 100

1.4 Emergency telephone number:

For emergency health, safety, and environmental information: telephone 800-EASTMAN or 423 229-4511 in the United States; or +44 (0)1235 239 670 in Europe.

For emergency transportation information, call +44(0)1235 239 670; or 800 964214 in England; 01800559700 in Eire; or 423-229-4511 in the United States. Identify the call as a transportation emergency.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

Regulation No. 1272/2008.

Health Hazards

Skin sensitizer Category 1 H317: May cause an allergic skin reaction.

Environmental Hazards

Chronic hazards to the aquatic environment Category 2 H411: Toxic to aquatic life with long lasting effects.

Hazard summary

Physical Hazards: None known.

Health Hazards

Inhalation: None known.

Eye contact: Eye may become red, tear, and become painful.

Skin contact: May cause an allergic skin reaction.

Ingestion: None known.

Other Health Effects: No data available.

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

Classification according to Directive 67/548/EEC or 1999/45/EC as amended.

R43: May cause sensitisation by skin contact.

N: Dangerous for the environment.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label Elements

Signal Words: Warning

Hazard Statement(s): H317: May cause an allergic skin reaction.
H411: Toxic to aquatic life with long lasting effects.

Precautionary Statement

Prevention: P261: Avoid breathing dust/fume/gas/mist/vapors/spray. P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response: P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P391: Collect spillage.

Disposal: P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

2.3 Other hazards: None known.

SECTION 3: Composition/information on ingredients

3.2 Mixture

General information:

Chemical name	Concentration	Additional identification	Notes
Triisobutyl phosphate	60 - 100%	CAS-No.: 126-71-6 EC No.: 204-798-3 REACH Registration No.: 01-2119957118-32-xxx	
Phenol, isobutylated, phosphate (3:1)	1 - 10%	CAS-No.: 68937-40-6 EC No.: 700-990-0 REACH Registration No.: 01-2119519251-50-0000	
tert-Butylphenyl diphenyl phosphate	1 - 5%	56803-37-3	
triphenylphosphate	1 - 5%	115-86-6	
2-Ethylhexyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate	<10%	CAS-No.: 62256-00-2 EC No.: 263-471-3	
butylated hydroxytoluene	0,1 - 1%	CAS-No.: 128-37-0 EC No.: 204-881-4	

Explanation for Notes (if applicable):

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

This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

Classification

Chemical name	Classification		Notes
Triisobutyl phosphate	DSD:	Xi, R43	
	CLP:	Skin Sens. 1B, H317	
Phenol, isobutylated, phosphate (3:1)	DSD:	N, R50/53	
	CLP:	Aquatic Acute 1, H400; Aquatic Chronic1, H410 M-factor = 1	
tert-Butylphenyl diphenyl phosphate	DSD:	N, R50/53	
	CLP:	Aquatic Acute 1, H400; Aquatic Chronic1, H410 M-factor = 1	

triphenylphosphate	DSD:	N, R50/53	
	CLP:	Aquatic Acute 1, H400; Aquatic Chronic2, H411 M-factor = 1	
2-Ethylhexyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate	DSD:	Xi, R43	
	CLP:	Skin Sens. 1, H317	
butylated hydroxytoluene	DSD:	N, R50/53	
	CLP:	Aquatic Acute 1, H400; Aquatic Chronic1, H410	

DSD: Directive 67/548/EEC.

CLP: Regulation No. 1272/2008.:

The full text for all R-phrases and H-statements is displayed in section 16.

SECTION 4: First aid measures

General: Get medical attention if symptoms occur. Show this safety data sheet to the doctor in attendance. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Place unconscious person on the side in the recovery position and ensure breathing can take place. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

4.1 Description of first aid measures

Inhalation: In case of inhalation of spray mist: Move person into fresh air and keep at rest. For breathing difficulties, oxygen may be necessary. Consult a physician for specific advice. Persons who have inhaled vapours or smoke fumes have to be put under medical observation for at least 48 hours, due to the delayed appearance of poisoning.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if symptoms occur.

Skin contact: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If skin irritation or an allergic skin reaction develops, get medical attention. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

Ingestion: If swallowed, rinse mouth with water (only if the person is conscious). Call a physician or poison control center immediately. Do not induce vomiting without advice from poison control center. Never give liquid to an unconscious person. Provide fresh air, warmth and rest, preferably in comfortable upright sitting position. Loosen tight clothing such as a collar, tie, belt or waistband. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

4.2 Most important symptoms and effects, both acute and delayed: May cause allergic skin reaction. Eye may become red, tear, and become painful.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: No data available.

Treatment: Treat symptomatically.

SECTION 5: Firefighting measures

General Fire Hazards: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Keep upwind. In case of fire and/or explosion do not breathe fumes.

5.1 Extinguishing media

Suitable extinguishing media: Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing media: Avoid water in straight hose stream; will scatter and spread fire.

5.2 Special hazards arising from the substance or mixture: May ignite at high temperature. During fire, gases hazardous to health may be formed. Risk of chemical pneumonia after aspiration. Hazardous Combustion Products : carbon dioxide, carbon monoxide , oxides of phosphorus .

5.3 Advice for firefighters

Special fire fighting procedures: In case of fire: Evacuate area. Move container from fire area if it can be done without risk. Use water spray to keep fire-exposed containers cool. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: No action shall be taken involving any personal risk or without suitable training. Keep unauthorized personnel away. Ventilate closed spaces before entering them. Avoid inhalation of vapors and spray mists. Wear appropriate personal protective equipment. Caution: Contaminated surfaces may be slippery. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Reference to other sections See Section 8 of the SDS for Personal Protective Equipment.

- 6.2 Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Clear up spills immediately and dispose of waste safely. Prevent spillage entering a watercourse or sewer, contaminating soil or vegetation. If this is not possible notify police and appropriate authorities immediately.
- 6.3 Methods and material for containment and cleaning up:** Small Liquid Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Large Spillages: Dike for later disposal. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Otherwise, absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Prevent runoff from entering drains, sewers, or streams.
- Notification Procedures:** In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

SECTION 7: Handling and storage:

- 7.1 Precautions for safe handling:** Do not handle until all safety precautions have been read and understood. Handle product only in closed system or provide appropriate exhaust ventilation at machinery. An eye wash bottle must be available at the work site. Wear appropriate personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment. Do not taste or swallow. Do not breathe mist or vapor from heated material. In case of inadequate ventilation, use respiratory protection. Do not get in eyes and avoid contact with skin and clothing. Wash promptly with soap and water if skin becomes contaminated. Remove contaminated clothing and wash it before reuse. Destroy or thoroughly clean contaminated shoes. Drain or remove substance from equipment prior to break-in or maintenance. Handle in accordance with good industrial hygiene and safety practice. See also Section 8 for additional information on hygiene measures.
- 7.2 Conditions for safe storage, including any incompatibilities:** Store in a cool, dry place out of direct sunlight. Keep container tightly closed and in a well-ventilated place. Keep upright. Keep in original container. Store locked up. Store away from incompatible materials. Keep away from food, drink and animal feeding stuffs. Store in accordance with local/regional/national/international regulations.
- 7.3 Specific end use(s):** www.EastmanAviationSolutions.com

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters Occupational Exposure Limits

Country specific exposure limits have not been established or are not applicable unless listed below.

DNEL-Values

Critical component	type	Route of Exposure		Remarks
Triisobutyl phosphate	Workers	DNEL Human, dermal, long-term (repeated); systemic	1,71 mg/kg bw/day	
Triisobutyl phosphate		DNEL Human, inhalation, long-term (repeated); systemic	6,03 mg/m ³	
Triisobutyl phosphate	General population	DNEL Human, oral, long-term (repeated); systemic	0,86 mg/kg bw/day	
Triisobutyl phosphate		DNEL Human, dermal, long-term (repeated); systemic	0,86 mg/kg bw/day	
Triisobutyl phosphate		DNEL Human, inhalation, long-term (repeated):	1,49 mg/m ³	

PNEC-Values

Critical component	Environmental compartment		Remarks
Triisobutyl phosphate	Aquatic (freshwater)	0,011 mg/l	
Triisobutyl phosphate	Aquatic (marine water)	0,0011 mg/l	
Triisobutyl phosphate	Sediment (freshwater)	1,58 mg/l	dry
Triisobutyl phosphate	Sediment (marine water)	0,158 mg/l	dry
Triisobutyl phosphate	Aquatic (intermit. releases)	0,11 mg/l	
Triisobutyl phosphate	Soil	0,308 mg/kg	dry
Triisobutyl phosphate	Sewage treatment plant	3,72 mg/l	

8.2 Exposure controls

Appropriate engineering controls:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information:

An eye wash bottle must be available at the work site. Provide access to washing facilities including soap, skin cleanser and fatty cream.

Eye/face protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Recommendations: Wear safety glasses with side shields (or goggles). Use safety goggles and face shield in case of splash risk.

Skin protection**Hand Protection:**

If prolonged or repeated contact is likely, chemical resistant gloves are recommended. If contact with forearms is likely, wear gauntlet style gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations. See Solutia Glove Facts for permeation data. 1) The breakthrough time of the glove material, with regard to the amount and duration of dermal exposure: > 8 hours.

1) Butyl rubber. Neoprene. Nitrile rubber. Polyvinyl chloride (PVC). Rubber (natural, latex).

Other:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommendations: Apron or other light protective clothing and boots. If prolonged or repeated contact is likely, chemical resistant clothing is recommended. Promptly remove non-impervious clothing that becomes wet or contaminated.

Respiratory Protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. Respirator type: Particle filter device (DIN EN 143) Recommendations: Dust filter P2 (for fine dust).

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using the product. Wash at the end of each work shift and before eating, smoking and using the toilet. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Keep away from food, drink and animal feeding stuffs.

Environmental Controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. Do not contaminate water sources or sewer.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****Appearance****Physical state:**

liquid

Form:

Oily liquid Clear

Color:	purple
Odor:	Odorless
Odor Threshold:	No data available.
pH:	No data available.
Freezing Point:	< -62 °C
Boiling Point:	No data available.
Flash Point:	154 °C (Cleveland Open Cup)
Evaporation Rate:	No data available.
Flammability (solid, gas):	not applicable
Flammability Limit - Upper (%):	No data available.
Flammability Limit - Lower (%):	No data available.
Vapor pressure:	0,4 hPa (25 °C)
Vapor density (air=1):	No data available.
Specific Gravity:	0,970 - 0,980 (25 °C)
Solubility(ies)	
Solubility in Water:	Slightly Soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Autoignition Temperature:	> 399 °C (ASTM D2155)
Decomposition Temperature:	No data available.
Dynamic viscosity:	No data available.
Kinematic viscosity:	< 2.600 mm ² /s (-54 °C) 9,00 - 9,84 mm ² /s (38 °C) 3,01 - 3,41 mm ² /s (99 °C)
Explosive properties:	Not classified.
Oxidizing properties:	Not classified.

SECTION 10: Stability and reactivity

10.1 Reactivity:	Material is stable under normal conditions.
10.2 Chemical Stability:	Material is stable under normal conditions.
10.3 Possibility of Hazardous Reactions:	None under normal conditions.
10.4 Conditions to Avoid:	None known.
10.5 Incompatible Materials:	Strong oxidizing agents.
10.6 Hazardous Decomposition Products:	Emits acrid smoke and fumes when heated to decomposition.

SECTION 11: Toxicological information

Information on likely routes of exposure

Inhalation: No data available.

Ingestion: No data available.

Skin contact: May cause an allergic skin reaction.

Eye contact: Contact with the eyes may be very painful but does not cause damage.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: No data available.

Specified substance(s)

Triisobutyl phosphate	Oral LD-50: (Rat): > 5.000 mg/kg Not classified.
Phenol, isobutylenated, phosphate (3:1)	LDLo (Rat, Male and Female): 15.800 mg/kg Not classified.
2-Ethylhexyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate	Oral LD-50: (Rat, Male and Female): 4.470 mg/kg
butylated hydroxytoluene	Oral LD-50: (Rat): > 6.000 mg/kg

Dermal

Product: No data available.

Specified substance(s)

Triisobutyl phosphate	Dermal LD-50: (Rabbit): > 5.000 mg/kg Not classified.
Phenol, isobutylenated, phosphate (3:1)	LDLo (Rabbit, Male and Female): > 7.940 mg/kg Not classified.
2-Ethylhexyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate	Dermal LD-50: (Rabbit, Male and Female): > 7.940 mg/kg
butylated hydroxytoluene	Dermal LD-50: (Guinea Pig): > 20.000 mg/kg

Inhalation

Product: No data available.

Specified substance(s)

Triisobutyl phosphate	Dusts, mists and fumes: LC50 (Rat, 4 h): > 5,14 mg/l Not classified.
Phenol, isobutylenated, phosphate (3:1)	No data available.
2-Ethylhexyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate	No data available.
butylated hydroxytoluene	No data available.

Repeated dose toxicity

Product: No data available.

Specified substance(s)

Triisobutyl phosphate	NOEL (Rat(Male.), Oral Study): 68,4 mg/kg
Phenol, isobutylated, phosphate (3:1)	No data available.
2-Ethylhexyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate	No data available.
butylated hydroxytoluene	No data available.

Skin Corrosion/Irritation:

Product: No data available.

Specified substance(s)

Triisobutyl phosphate	(Rabbit, 4 h): Slightly irritating.
Phenol, isobutylated, phosphate (3:1)	Draize (Rabbit) Slightly irritating.
2-Ethylhexyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate	(Rabbit, 24 h): slight to moderate irritation
butylated hydroxytoluene	(Rabbit, 24 h): very slight

Serious Eye Damage/Eye Irritation:

Product: No data available.

Specified substance(s)

Triisobutyl phosphate	(Rabbit): Slight
Phenol, isobutylated, phosphate (3:1)	(Rabbit): Slightly irritating.
2-Ethylhexyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate	(Rabbit, 24 h): slight irritation
butylated hydroxytoluene	(Rabbit): none

Respiratory or Skin**Sensitization:**

Product: No data available.

Specified substance(s)

Triisobutyl phosphate	OECD 406: Guinea pig sensitization, OECD 406: Guinea pig sensitization (Guinea Pig) - sensitizing
Phenol, isobutylated, phosphate (3:1)	No data available.
2-Ethylhexyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate	Skin Sensitization:, (Guinea Pig) - slight
butylated hydroxytoluene	Skin Sensitization:, (Guinea Pig) - non-sensitizing

Mutagenicity

In vitro

Product: No data available.

Specified substance(s)

Triisobutyl phosphate	Salmonella typhimurium assay (Ames test), Bacterial Reverse Mutation Assay : negative +/- activation
Phenol, isobutylated, phosphate (3:1)	No data available.
2-Ethylhexyl 7- oxabicyclo[4.1.0]heptane-3- carboxylate	Salmonella typhimurium assay (Ames test), Bacterial Reverse Mutation Assay : negative +/- activation Mutagenicity - Mammalian, In vitro Mammalian Chromosome Aberration Test : equivocal +/- activation Mutagenicity - Mammalian, In vitro Mammalian Cell Gene Mutation Test : negative +/- activation
butylated hydroxytoluene	No data available.

In vivo

Product: No data available.

Specified substance(s)

Triisobutyl phosphate	Chromosomal aberration: negative
Phenol, isobutylated, phosphate (3:1)	No data available.
2-Ethylhexyl 7- oxabicyclo[4.1.0]heptane-3- carboxylate	Chromosomal aberration (Mammalian Bone Marrow Chromosome Aberration Test) Intraperitoneal (Rat, Male and Female): equivocal
butylated hydroxytoluene	No data available.

Carcinogenicity

Product: No data available.

Reproductive toxicity

Toxicity to reproduction

Product: No data available.

Developmental toxicity

Product: No data available.

Specified substance(s):

Triisobutyl phosphate Rat; NOAEL: 300 mg/kg

Specific Target Organ Toxicity - Single Exposure

Product: Inhalation - dust and mist: Not classified.

Specific Target Organ Toxicity - Repeated Exposure

Product: Not classified.

Aspiration Hazard

Product: not applicable

Other Adverse Effects:

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product: LC-50 (Oncorhynchus mykiss, 96 h): 23 mg/l Read-across from a similar material
 EC-50 (Leuciscus idus, 96 h): 17,8 - 21,5 mg/l Read-across from a similar material

Aquatic Invertebrates

Product: (Daphnia magna, 48 h): 50,5 mg/l Read-across from a similar material
 EC-50 (Daphnia magna, 48 h): 11 mg/l

Chronic Toxicity

Fish

Product: NOEC No data available.

Aquatic Invertebrates

Product: NOEC No data available.

Toxicity to Aquatic Plants

Product: ErC50 (Scenedesmus subspicatus, 72 h): 34,1 mg/l

12.2 Persistence and Degradability

Biodegradation

Product: Expected to be readily biodegradable.

Biological Oxygen Demand:

Product No data available.

Chemical Oxygen Demand:

Product No data available.

BOD/COD Ratio

Product No data available.

Specified substance(s)

Triisobutyl phosphate No data available.

Phenol, isobutylated, phosphate (3:1) No data available.

2-Ethylhexyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate No data available.

butylated hydroxytoluene No data available.

12.3 Bioaccumulative Potential

Product: Potential to bioaccumulate is low. Read-across from a similar material

12.4 Mobility in Soil:

No data available.

12.5 Results of PBT and vPvB assessment:

Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria Not fulfilling vPvB (very persistent, very bioaccumulative) criteria.

12.6 Other Adverse Effects:

No data available.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****General information:**

The generation of waste should be avoided or minimized wherever possible. Comply with requirements of waste disposal legislation and any local authority requirements. The generation of waste should be avoided or minimized wherever possible.

Disposal methods:

Recover and reclaim or recycle, if practical. Dispose of this material and its container to hazardous or special waste collection point. Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Do not discharge into drains, water courses or onto the ground.

Since emptied containers retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

European Waste Codes

Waste codes should be assigned by the user based on the application for which the product was used. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

The following Waste Codes are only suggestions. Any waste marked with an asterisk (*) is considered as a hazardous waste pursuant to Directive 91/689/EEC on hazardous waste, and subject to the provisions of that Directive unless Article 1(5) of that Directive applies.

Unused product: 13 01 11*: synthetic hydraulic oils

Used product: 13 01 11*: synthetic hydraulic oils

Contaminated Packaging: 15 01 10*: packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

ADR/RID

Class 9, Packing Group III

Possible Shipping Description(s):

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (triphenyl phosphate)
 9 III

IMDG - International Maritime Dangerous Goods Code

Marine pollutant.: (triphenyl phosphate)

Possible Shipping Description(s):

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (triphenyl phosphate) 9 III

IATA

Class 9, Packing Group III when shipped by air from or to the Netherlands or between European Union and Australia; otherwise, not regulated.

Possible Shipping Description(s):

UN 3082 Environmentally hazardous substance, liquid, n.o.s. (triphenyl phosphate) 9 III

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.:
 EU. Directive 94/33/EC on young people at work, OJ (L 216) 12, 20 Aug 1994

Chemical name	CAS-No.	Concentration
Triisobutyl phosphate	CAS-No.: 126-71-6	60 - 100%
Phenol, isobutylated, phosphate (3:1)	CAS-No.: 68937-40-6	1 - 10%
2-Ethylhexyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate	CAS-No.: 62256-00-2	0 - <10%
butylated hydroxytoluene	CAS-No.: 128-37-0	0,1 - 1%

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work.:

Chemical name	CAS-No.	Concentration
Triisobutyl phosphate	CAS-No.: 126-71-6	60 - 100%
Phenol, isobutylated, phosphate (3:1)	CAS-No.: 68937-40-6	1 - 10%
2-Ethylhexyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate	CAS-No.: 62256-00-2	1 - <10%
butylated hydroxytoluene	CAS-No.: 128-37-0	0,1 - 1%

15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Revision Information: Not relevant.

Key literature references and sources for data: www.EastmanAviationSolutions.com

Wording of the R-phrases and H-statements in section 2 and 3:

Xi = Irritant
 R43 = May cause sensitisation by skin contact.
 N = Dangerous for the environment
 R50/53 = Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 Xi = Irritant
 R43 = May cause sensitisation by skin contact.
 N = Dangerous for the environment
 R50/53 = Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Skin Sens. = Skin sensitizer
 1B = Category 1B
 H317 = May cause an allergic skin reaction.

Aquatic Acute = Acute hazards to the aquatic environment
 Aquatic Chronic = Chronic hazards to the aquatic environment
 1 = Category 1
 1 = Category 1

H400= Very toxic to aquatic life.
H410= Very toxic to aquatic life with long lasting effects.

1 = Category 1
2 = Category 2
H400= Very toxic to aquatic life.
H411= Toxic to aquatic life with long lasting effects.

Skin Sens. = Skin sensitizer
1 = Category 1
H317= May cause an allergic skin reaction.

Aquatic Acute = Acute hazards to the aquatic environment
Aquatic Chronic = Chronic hazards to the aquatic environment
1 = Category 1
1 = Category 1
H400= Very toxic to aquatic life.
H410= Very toxic to aquatic life with long lasting effects.

Training information:

No data available.

Issue Date:

19.05.2015

SDS No.:**Disclaimer:**

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.