

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

EASTMAN

Skydrol® 500B-4 Fire Resistant Hydraulic Fluid

Version	Revision Date:	SDS Number:	Date of last issue: 16.09.2020
2.4	19.07.2021	15000093408	Date of first issue: 18.09.2013
PRD		SDSEU / EN / 0001	

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

1.1 Product identifier

Trade name : Skydrol® 500B-4 Fire Resistant Hydraulic Fluid

Product code : 34101-00, P3410105, P3410100, P3410101, P3410103, P3410102, P3410104, P3410106, P3410107

Unique Formula Identifier (UFI) : SCAG-NWGV-8U0E-9J83

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

Use of the Substance/Mixture : Hydraulic fluids

Recommended restrictions on use : None known.

1.3 Details of the supplier of the safety data sheet

Company : Eastman Chemical Company
200 South Wilcox Drive
37660-5280 Kingsport

Telephone : +14232292000

E-mail address of person responsible for the SDS : Visit our website at www.EASTMAN.com or email emnmsds@eastman.com

1.4 Emergency telephone

NCEC +44 (0)1235 239 670

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Carcinogenicity, Category 2 : H351: Suspected of causing cancer.

Long-term (chronic) aquatic hazard, Category 3 : H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)


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Hazard pictograms : 

Signal Word : Warning

Hazard Statements : H351 Suspected of causing cancer.
H412 Harmful 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.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous ingredients which must be listed on the label:

Tributyl phosphate

Additional Labeling

EUH208 Contains 2-ethylhexyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate. May produce an allergic reaction.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Tributyl phosphate	126-73-8 204-800-2	Acute Tox. 4; H302 Skin Irrit. 2; H315	>= 10 - < 20

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	015-014-00-2 01-2119492859-14-0002, 01-2119967407-27-0000	Carc. 2; H351 Aquatic Chronic 3; H412	
7-Oxabicyclo[4.1.0]heptane-3-carboxylic acid, 2-ethylhexyl ester	62256-00-2 263-471-3 01-2120767056-51-xxxx	Skin Sens. 1; H317	>= 1 - < 10
butylated hydroxytoluene	128-37-0 204-881-4 01-2119565113-46-xxxx	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,1 - < 0,25

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

- If inhaled : Move to fresh air.
If breathing is difficult, give oxygen.
Consult a physician if necessary.
- In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes.
Get medical attention if symptoms occur.
Wash contaminated clothing before reuse.
- In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
Get medical attention if symptoms occur.
- If swallowed : Call a physician or poison control center immediately.
Do not induce vomiting without medical advice.
Rinse mouth.
Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : Suspected of causing cancer.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Water spray
Carbon dioxide (CO₂)
Dry chemical

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Foam

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products : Carbon monoxide
Carbon dioxide (CO₂)
oxides of phosphorus

5.3 Advice for firefighters

Special protective equipment for fire-fighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

Further information : Use a water spray to cool fully closed containers.
Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Ventilate the area.
Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Avoid contact with skin and eyes.
Material can create slippery conditions.
Wear appropriate personal protective equipment.
Local authorities should be advised if significant spillages cannot be contained.

6.2 Environmental precautions

Environmental precautions : Clear up spills immediately and dispose of waste safely.
Avoid release to the environment.
Collect spillage.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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Advice on safe handling : Do not breathe vapors or spray mist.
Handle product only in closed system or provide appropriate exhaust ventilation at machinery.
In case of insufficient ventilation, wear suitable respiratory equipment.
Wear appropriate personal protective equipment.
Avoid contact with skin, eyes and clothing.
Wash thoroughly after handling.
Wash contaminated clothing before reuse.
Drain or remove substance from equipment prior to break-in or maintenance.
Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store locked up. Keep container tightly closed in a dry and well-ventilated place. Keep in a cool place away from oxidizing agents.

7.3 Specific end use(s)

Specific use(s) : See section 15 for more information.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Routes of exposure	Potential health effects	Value
Tributyl phosphate	Workers	Skin contact	Short-term exposure, Local effects	1,78 mg/cm ²
	Workers	Skin contact	Long-term exposure, Local effects	0,44 mg/cm ²
	Workers	Skin contact	Short-term exposure, Systemic effects	1,78 mg/kg bw/day
	Workers	Skin contact	Long-term exposure, Systemic effects	0,44 mg/kg bw/day
	Workers	Inhalation	Short-term exposure, Local effects	12,52 mg/m ³
	Workers	Inhalation	Long-term exposure, Local effects	3,13 mg/m ³
	Workers	Inhalation	Short-term exposure, Systemic effects	12,52 mg/m ³
	Workers	Inhalation	Long-term exposure, Systemic effects	3,13 mg/m ³
	General Popu-	Oral	Short-term exposure,	0,88 mg/kg

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	Population	Exposure Route	Systemic effects	bw/day
	General Population	Oral	Long-term exposure, Systemic effects	0,22 mg/kg bw/day
	General Population	Skin contact	Short-term exposure, Local effects	0,88 mg/cm ²
	General Population	Skin contact	Long-term exposure, Local effects	0,22 mg/cm ²
	General Population	Skin contact	Short-term exposure, Systemic effects	0,88 mg/kg bw/day
	General Population	Skin contact	Long-term exposure, Systemic effects	0,22 mg/kg bw/day
	General Population	Inhalation	Short-term exposure, Local effects	3,08 mg/m ³
	General Population	Inhalation	Long-term exposure, Local effects	0,77 mg/m ³
	General Population	Inhalation	Short-term exposure, Systemic effects	3,08 mg/m ³
	General Population	Inhalation	Long-term exposure, Systemic effects	0,77 mg/m ³

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Tributyl phosphate	Water	0,082 mg/l
	Fresh water sediment	1,84 mg/kg
Remarks:	dry	
	Marine water	0,0082 mg/l
	Marine sediment	0,184 mg/kg
	dry	
	Sewage treatment plant	1 mg/l
	Soil	3,63 mg/kg
	dry	

8.2 Exposure controls

Engineering measures

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.

Personal protective equipment

Eye protection : Wear safety glasses with side shields (or goggles).

Hand protection

Material : Rubber gloves
Break through time : 80 min
Rate of permeability : 108 min
Glove thickness : 0,2 mm

Material : Nitrile rubber

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Break through time : 213 min
Rate of permeability : 120 min
Glove thickness : 0,46 mm

Material : Neoprene
Break through time : 287 min
Rate of permeability : 108 min
Glove thickness : 0,2 mm

Material : Rubber gloves
Break through time : 290 min
Rate of permeability : 144 min
Glove thickness : 0,61 mm

Remarks : 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.
The breakthrough time of the glove material, with regard to the amount and duration of dermal exposure: 1 to 4 hours.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.
Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable.
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.

Protective measures : Ensure that eye flushing systems and safety showers are located close to the working place.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : liquid, oily
Color : purple
Odor : odourless
Odor Threshold : not determined

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Melting point/range	:	< -62 °C
Boiling point/boiling range	:	not determined
Flammability	:	Not applicable
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Flash point	:	> 177 °C Method: Cleveland open cup
Autoignition temperature	:	not determined
Decomposition temperature Decomposition temperature	:	not determined
pH	:	No data available
Viscosity Viscosity, dynamic	:	not determined
Viscosity, kinematic	:	< 2900 mm ² /s (-54 °C) 11,4 - 12,4 mm ² /s (38 °C) 3,68 - 4 mm ² /s (99 °C)
Partition coefficient: n-octanol/water	:	No data available
Vapor pressure	:	0,27 hPa (25 °C)
Relative density	:	1,052 - 1,060 (25 °C)
Density	:	1.052 - 1.060 kg/m ³ (25 °C)
Relative vapor density	:	No data available

9.2 Other information

Explosives	:	Not classified
Oxidizing properties	:	Not classified
Self-ignition	:	398 °C

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Method: ASTM D2155

Evaporation rate : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

None reasonably foreseeable.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : None known.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

10.6 Hazardous decomposition products

Emits acrid smoke and fumes when heated to decomposition.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : LD50 (Rat, male and female): 2.100 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 4,5 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: (highest concentration tested)

Acute dermal toxicity : LD50 Dermal (Rabbit, male and female): > 7.940 mg/kg
Assessment: Not classified

Components:

Tributyl phosphate:

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Acute oral toxicity : LD50 Oral (Rat, male and female): 1.553 mg/kg
Assessment: Harmful if swallowed.

LD50 Oral (Rat, male and female): 1.400 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 4,242 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 Dermal (Rabbit, male and female): > 3.100 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

7-Oxabicyclo[4.1.0]heptane-3-carboxylic acid, 2-ethylhexyl ester:

Acute oral toxicity : LD50 Oral (Rat, male and female): 4.470 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit, male and female): > 7.940 mg/kg

butylated hydroxytoluene:

Acute oral toxicity : LD50 Oral (Rat): > 6.000 mg/kg

Acute dermal toxicity : LD50 Dermal (Guinea pig): > 20.000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Product:

Species : Rabbit
Exposure time : 24 h
Assessment : Not classified as hazardous.
Result : No skin irritation

Components:

Tributyl phosphate:

Species : Rabbit
Exposure time : 4 h
Assessment : Causes skin irritation.
Result : irritating

7-Oxabicyclo[4.1.0]heptane-3-carboxylic acid, 2-ethylhexyl ester:

Species : Rabbit
Exposure time : 24 h
Assessment : Not classified as hazardous.
Result : slight to moderate irritation

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butylated hydroxytoluene:

Species	:	Rabbit
Exposure time	:	24 h
Result	:	very slight

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Species	:	Rabbit
Exposure time	:	24 h
Assessment	:	Not classified

Components:

Tributyl phosphate:

Species	:	Rabbit
Exposure time	:	24 h
Assessment	:	Not classified
Result	:	slight irritation

7-Oxabicyclo[4.1.0]heptane-3-carboxylic acid, 2-ethylhexyl ester:

Species	:	Rabbit
Exposure time	:	24 h
Assessment	:	Not classified
Result	:	slight irritation

butylated hydroxytoluene:

Species	:	Rabbit
Result	:	none

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Product:

Test Type	:	Skin Sensitization
Assessment	:	Not classified
Method	:	Human Repeat Insult Patch Test
Result	:	Does not cause skin sensitisation.

Components:

Tributyl phosphate:

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Application Route: oral: gavage
Method: Mammalian Bone Marrow Chromosome Aberration Test
Result: negative

7-Oxabicyclo[4.1.0]heptane-3-carboxylic acid, 2-ethylhexyl ester:

Genotoxicity in vitro : Test Type: Salmonella typhimurium assay (Ames test)
Metabolic activation: +/- activation
Method: Bacterial Reverse Mutation Assay
Result: negative

Test Type: Mutagenicity - Mammalian
Metabolic activation: +/- activation
Method: In vitro Mammalian Chromosome Aberration Test
Result: equivocal

Test Type: Mutagenicity - Mammalian
Metabolic activation: +/- activation
Method: In vitro Mammalian Cell Gene Mutation Test
Result: negative

Genotoxicity in vivo : Species: Rat (male and female)
Application Route: intraperitoneal injection
Method: Mammalian Bone Marrow Chromosome Aberration Test
Result: equivocal

Carcinogenicity

Suspected of causing cancer.

Product:

Remarks : This information is not available.

Components:

Tributyl phosphate:

Species : Rat, male and female
Application Route : Ingestion
Method : EPA OTS 798.3300
Remarks : Limited evidence of a carcinogenic effect.
May cause cancer.

Reproductive toxicity

Not classified based on available information.

Product:

Effects on fertility : Remarks: No data available

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STOT-single exposure

Not classified based on available information.

Product:

Routes of exposure : Inhalation
Assessment : Not classified

Components:

Tributyl phosphate:

Assessment : Based on available data, the classification criteria are not met.

STOT-repeated exposure

Not classified based on available information.

Product:

Routes of exposure : Inhalation
Target Organs : Blood, Liver
Assessment : Not classified

Components:

Tributyl phosphate:

Assessment : Based on available data, the classification criteria are not met.

Repeated dose toxicity

Product:

Species : Rat, male and female
NOAEL : 100 mg/m³
Exposure time : 90 days
Target Organs : Blood, Liver

Components:

Tributyl phosphate:

Species : Mouse, male and female
: 75 mg/kg
Application Route : in feed
Exposure time : 90 days

Aspiration toxicity

Not classified based on available information.

Product:

Not applicable

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Components:

7-Oxabicyclo[4.1.0]heptane-3-carboxylic acid, 2-ethylhexyl ester:

Not applicable

11.2 Information on other hazards

Routes of exposure

Product:

Inhalation : Remarks: None known.

Skin contact : Remarks: None known.

Eye contact : Remarks: None known.

Ingestion : Remarks: None known.

Further information

Product:

Remarks : None known.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2,6 mg/l
Exposure time: 96 h
Test Type: EPA-660/3-75-009 Methods for Acute Toxicity Tests with Fish, Macroinvertebrates, and Amphibians, April 1975

EC50 (Pimephales promelas (fathead minnow)): 3,0 mg/l
Exposure time: 96 h
Test Type: EPA-660/3-75-009 Methods for Acute Toxicity Tests with Fish, Macroinvertebrates, and Amphibians, April 1975

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 6,5 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Selenastrum capricornutum (green algae)): 7,8 mg/l
Exposure time: 72 h

Components:

Tributyl phosphate:

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Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 4,2 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 1,8 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): 1,1 mg/l Exposure time: 72 h
Toxicity to fish (Chronic toxicity)	:	NOEC: 0,82 mg/l Exposure time: 95 d Species: Oncorhynchus mykiss (rainbow trout) 1,7 mg/l
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 1,3 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)

7-Oxabicyclo[4.1.0]heptane-3-carboxylic acid, 2-ethylhexyl ester:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 2,9 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 6,5 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (algae)): 2,6 mg/l Exposure time: 72 h NOEC (Pseudokirchneriella subcapitata (algae)): 0,11 mg/l Exposure time: 72 h
Toxicity to microorganisms	:	EC50 : 2,6 mg/l Exposure time: 72 h

butylated hydroxytoluene:

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): > 0,57 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0,48 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (algae)): > 0,24 mg/l Exposure time: 72 h NOEC (Pseudokirchneriella subcapitata (algae)): 0,24 mg/l Exposure time: 72 h
Toxicity to fish (Chronic toxicity)	:	NOEC: 0,053 mg/l Exposure time: 30 d Species: Oryzias latipes (Orange-red killifish)

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,069 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)

12.2 Persistence and degradability

Product:

Biochemical Oxygen Demand (BOD) : Remarks: No data available

Chemical Oxygen Demand (COD) : Remarks: No data available

Components:

Tributyl phosphate:

Biodegradability : Result: Readily biodegradable.

7-Oxabicyclo[4.1.0]heptane-3-carboxylic acid, 2-ethylhexyl ester:

Biodegradability : Concentration: 100 mg/l
Method: Ready Biodegradability: Modified MITI Test (I)
Remarks: Readily biodegradable

12.3 Bioaccumulative potential

Components:

Tributyl phosphate:

Bioaccumulation : Species: Cyprinus carpio (Carp)
Exposure time: 56 d
Bioconcentration factor (BCF): 20
Method: OECD Test Guideline 305

Exposure time: 38 d
Bioconcentration factor (BCF): 35

Partition coefficient: n-octanol/water : Pow: 10.100

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

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2.4	19.07.2021	15000093408	Date of first issue: 18.09.2013
PRD		SDSEU / EN / 0001	

0.1% or higher..

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.

SECTION 14: Transport information

14.1 UN number or ID number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59) : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pol- : Not applicable

SAFETY DATA SHEET

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according to Regulation (EC) No. 1907/2006

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Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. H2 ACUTE TOXIC

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Not applicable

Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

The ingredients of this product are reported in the following inventories:

DSL : All components of this product are on the Canadian DSL

AICS : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TCSI : On the inventory, or in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

15.2 Chemical Safety Assessment

For the following substances of this mixture a chemical safety assessment has been carried out:
Reaction mass of dibutyl phenyl phosphate, butyl diphenyl phosphate and tributyl phosphate

SECTION 16: Other information

Full text of H-Statements

H302 : Harmful if swallowed.

H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction.

H351 : Suspected of causing cancer.

H400 : Very toxic to aquatic life.

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H410 : Very toxic to aquatic life with long lasting effects.
H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard
Carc. : Carcinogenicity
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitization

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Sources of key data used to compile the Material Safety Data Sheet : www.EastmanAviationSolutions.com

Classification of the mixture:

Carc. 2 H351

Classification procedure:

Calculation method

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Aquatic Chronic 3

H412

Based on product data or assessment

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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