

Skydrol® PE-5

Version	Revision Date:	SDS Number:	Date of last issue: 09.03.2021
1.6	03.01.2023	150000093410	Date of first issue: 03.06.2015
PRD		SDSAU / EN / 0001	

Precautionary statements

:

Prevention:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves.
P281 Use personal protective equipment as required.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.

Storage:

P405 Store locked up.

Disposal:

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

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**Components**

Chemical name	CAS-No.	Concentration (% w/w)
Tributyl phosphate	126-73-8	>= 60 -<= 100
Triisobutyl phosphate	126-71-6	>= 10 -< 30
Phenol, isopropylated, phosphate (3:1)	68937-41-7	>= 3 -< 10
7-Oxabicyclo[4.1.0]heptane-3-carboxylic acid, 2-ethylhexyl ester	62256-00-2	>= 1 -< 10
triphenylphosphate	115-86-6	< 10

Eastman is committed to the safety, health and environment of our employees, our customers, and the communities we operate within. As part of this commitment, Eastman's Safety Data Sheets (SDS) are prepared in accordance with all applicable national and local regulations. The compositions of our documents reflect these requirements which include, but are not limited to, requirements under the Globally Harmonized System of Classification and Labeling (GHS). These compositions commonly involve the use of ranges versus specific analytical values. If you require a composition that is more specific, please refer to the Certificate of Analysis, sales specification, or contact your Customer Service Representative.

Skydrol® PE-5

Version	Revision Date:	SDS Number:	Date of last issue: 09.03.2021
1.6	03.01.2023	15000093410	Date of first issue: 03.06.2015
PRD		SDSAU / EN / 0001	

SECTION 4. FIRST AID MEASURES

- If inhaled : Move to fresh air.
Call a physician or poison control center immediately.
- In case of skin contact : Wash off with soap and plenty of water.
Wash contaminated clothing before re-use.
Get medical attention.
Thoroughly clean shoes before reuse.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty
of water and seek medical advice.
- If swallowed : Seek medical advice.
- Most important symptoms and effects, both acute and delayed : Harmful if swallowed.
Causes skin irritation.
Suspected of causing cancer.
Suspected of damaging fertility or the unborn child if swallowed.
May cause damage to organs through prolonged or repeated exposure.
- Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Carbon dioxide (CO₂)
Dry chemical
Water spray
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread
fire.
- Hazardous combustion products : Carbon monoxide
Carbon dioxide (CO₂)
oxides of phosphorus
- Specific extinguishing methods : None known.
- Special protective equipment for firefighters : Wear an approved positive pressure self-contained breathing
apparatus in addition to standard fire fighting gear.
- Hazchem Code : 2ZE

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Wear appropriate personal protective equipment.
Avoid breathing mist or vapours.
Local authorities should be advised if significant spillages cannot be contained.

Skydrol® PE-5

Version	Revision Date:	SDS Number:	Date of last issue: 09.03.2021
1.6	03.01.2023	150000093410	Date of first issue: 03.06.2015
PRD		SDSAU / EN / 0001	

- Environmental precautions : Prevent further leakage or spillage if safe to do so.
Clear up spills immediately and dispose of waste safely.
Avoid release to the environment.
- Methods and materials for containment and cleaning up : Prevent runoff from entering drains, sewers, or streams.
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).

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : None known.
- Advice on safe handling : Avoid inhalation of vapor or mist.
Do not get on skin or clothing.
Avoid contact with skin, eyes and clothing.
Do not swallow.
Ensure adequate ventilation.
Wash thoroughly after handling.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
- Conditions for safe storage : Keep tightly closed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Tributyl phosphate	126-73-8	TWA	0.2 ppm 2.2 mg/m ³	AU OEL
	Further information: Category 2 (Carc. 2) Suspected human carcinogen			
		TWA (Inhalable fraction and vapor)	5 mg/m ³	ACGIH
triphenylphosphate	115-86-6	TWA	3 mg/m ³	AU OEL
		TWA	3 mg/m ³	ACGIH

- 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.

Skydrol® PE-5

Version	Revision Date:	SDS Number:	Date of last issue: 09.03.2021
1.6	03.01.2023	150000093410	Date of first issue: 03.06.2015
PRD		SDSAU / EN / 0001	

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

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.

Hand protection

Remarks : Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations.

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

Skin and body protection : Wear suitable protective clothing.

Protective measures : Remove respiratory and skin/eye protection only after vapors have been cleared from the area. Ensure that eye flushing systems and safety showers are located close to the working place. Use personal protective equipment as required.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : oily

Colour : purple

Odour : odourless

Odour Threshold : not determined

pH : not determined

Melting point/range : < -62 °C

Boiling point/boiling range : not determined

Skydrol® PE-5

Version	Revision Date:	SDS Number:	Date of last issue: 09.03.2021
1.6	03.01.2023	15000093410	Date of first issue: 03.06.2015
PRD		SDSAU / EN / 0001	

Flash point	:	171 °C
		Method: Cleveland open cup
Evaporation rate	:	not determined
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Vapour pressure	:	0.4 hPa (25 °C)
Relative vapour density	:	not determined
Relative density	:	0.9956 (25 °C)
Density	:	995 kg/m ³ (25 °C)
Auto-ignition temperature	:	424 °C
		Method: ASTM D2155
Decomposition temperature	:	not determined
Viscosity		
Viscosity, dynamic	:	not determined
Viscosity, kinematic	:	9.02 - 10.02 mm ² /s (38 °C)
Explosive properties	:	Not classified
Oxidizing properties	:	Not classified

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	None reasonably foreseeable.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Stable
Conditions to avoid	:	None known.
Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	Carbon dioxide (CO ₂) Carbon monoxide

Skydrol® PE-5

Version	Revision Date:	SDS Number:	Date of last issue: 09.03.2021
1.6	03.01.2023	15000093410	Date of first issue: 03.06.2015
PRD		SDSAU / EN / 0001	

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Harmful if swallowed.

Product:

Acute oral toxicity : Remarks: Harmful if swallowed.

Acute inhalation toxicity : Remarks: No significant adverse effects were reported

Acute dermal toxicity : Remarks: No significant adverse effects were reported

Components:**Tributyl phosphate:**

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

Triisobutyl phosphate:

Acute inhalation toxicity : LC50 (Rat): > 5.14 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): > 5,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

Phenol, isopropylated, phosphate (3:1):

Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat): > 200 mg/m3
Exposure time: 1 h
Assessment: The substance or mixture has no acute inhalation toxicity

Skydrol® PE-5

Version	Revision Date:	SDS Number:	Date of last issue: 09.03.2021
1.6	03.01.2023	150000093410	Date of first issue: 03.06.2015
PRD		SDSAU / EN / 0001	

Acute dermal toxicity : LD50 Dermal (Rabbit): > 10,000 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

triphenylphosphate:

Acute oral toxicity : LD50 Oral (Rat, male): > 6,400 mg/kg

Acute dermal toxicity : LD50 Dermal (Guinea pig, male): > 5,000 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks : Causes skin irritation.

Components:**Tributyl phosphate:**

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

Triisobutyl phosphate:

Species : Rabbit
Exposure time : 4 h
Result : Mild skin irritation

Phenol, isopropylated, phosphate (3:1):

Species : Rabbit
Assessment : Not classified

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

triphenylphosphate:

Species : Guinea pig
Remarks : Non-irritating to the skin.

Skydrol® PE-5

Version	Revision Date:	SDS Number:	Date of last issue: 09.03.2021
1.6	03.01.2023	150000093410	Date of first issue: 03.06.2015
PRD		SDSAU / EN / 0001	

Serious eye damage/eye irritation

Not classified based on available information.

Components:**Tributyl phosphate:**

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

Triisobutyl phosphate:

Species	:	Rabbit
Result	:	slight
Assessment	:	Not classified

Phenol, isopropylated, phosphate (3:1):

Species	:	Rabbit
Result	:	none
Assessment	:	Not classified

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

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

triphenylphosphate:

Species	:	Rabbit
Result	:	slight

Respiratory or skin sensitisation**Skin sensitisation**

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Product:

Test Type	:	OECD 429: LLNA
Species	:	Mouse
Result	:	Not a skin sensitizer.

Components:**Tributyl phosphate:**

Test Type	:	Skin Sensitization
Species	:	Guinea pig
Assessment	:	Not classified
Result	:	Does not cause skin sensitization.

Skydrol® PE-5

Version 1.6 PRD Revision Date: 03.01.2023 SDS Number: 150000093410 Date of last issue: 09.03.2021
Date of first issue: 03.06.2015
SDSAU / EN / 0001

Test Type : Skin Sensitization
Species : Humans
Assessment : Not classified
Result : Does not cause skin sensitization.

Triisobutyl phosphate:

Test Type : OECD 406: Guinea pig sensitization
Species : Guinea pig
Method : OECD 406: Guinea pig sensitization
Result : May cause sensitization by skin contact.

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

Test Type : Skin Sensitization
Species : Guinea pig
Result : May cause sensitization by skin contact.

Chronic toxicity**Germ cell mutagenicity**

Not classified based on available information.

Components:**Tributyl phosphate:**

Genotoxicity in vitro : Test Type: Mutagenicity - Bacterial
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

Genotoxicity in vivo : Species: Rat (male and female)
Application Route: oral: gavage
Method: Mammalian Bone Marrow Chromosome Aberration Test
Result: negative

Triisobutyl phosphate:

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

Genotoxicity in vivo : Result: negative

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

Genotoxicity in vitro : Test Type: Salmonella typhimurium assay (Ames test)

Skydrol® PE-5

Version	Revision Date:	SDS Number:	Date of last issue: 09.03.2021
1.6	03.01.2023	15000093410	Date of first issue: 03.06.2015
PRD		SDSAU / EN / 0001	

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.

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

Suspected of damaging fertility or the unborn child if swallowed.

Components:**Phenol, isopropylated, phosphate (3:1):**

Effects on fertility : Species: Rat, male and female
 Application Route: Oral
 General Toxicity - Parent: NOAEL: 25 milligram per kilogram
 Remarks: Suspected of damaging fertility or the unborn child.

triphenylphosphate:

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

STOT - single exposure

Not classified based on available information.

Skydrol® PE-5

Version Revision Date: SDS Number: Date of last issue: 09.03.2021
1.6 03.01.2023 150000093410 Date of first issue: 03.06.2015
PRD SDSAU / EN / 0001

Components:**Tributyl phosphate:**

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

Triisobutyl phosphate:

Assessment : Not classified

Phenol, isopropylated, phosphate (3:1):

Remarks : Not classified due to data which are conclusive although insufficient for classification.

STOT - repeated exposure

May cause damage to organs (Adrenal gland) through prolonged or repeated exposure.

Components:**Tributyl phosphate:**

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

Triisobutyl phosphate:

Assessment : Not classified

Phenol, isopropylated, phosphate (3:1):

Assessment : May cause damage to organs through prolonged or repeated exposure.

Repeated dose toxicity**Components:****Tributyl phosphate:**

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

Triisobutyl phosphate:

Species : Rat, male
 : 68.4 mg/kg
Application Route : Oral Study
Exposure time : 90 days

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

Skydrol® PE-5

Version	Revision Date:	SDS Number:	Date of last issue: 09.03.2021
1.6	03.01.2023	15000093410	Date of first issue: 03.06.2015
PRD		SDSAU / EN / 0001	

Components:**Triisobutyl phosphate:**

Not classified

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

Not applicable

Experience with human exposure**Product:**

Inhalation	:	Remarks: May cause damage to organs through prolonged or repeated exposure.
Skin contact	:	Remarks: Causes skin irritation.
Eye contact	:	Remarks: None known.
Ingestion	:	Remarks: Harmful if swallowed.

Further information**Product:**

Remarks : None known.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****Tributyl phosphate:**

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 (Oncorhynchus mykiss (rainbow trout)): 0.82 mg/l Exposure time: 95 d 1.7 mg/l
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 1.3 mg/l Exposure time: 21 d

Skydrol® PE-5

Version	Revision Date:	SDS Number:	Date of last issue: 09.03.2021
1.6	03.01.2023	15000093410	Date of first issue: 03.06.2015
PRD		SDSAU / EN / 0001	

Triisobutyl phosphate:

Toxicity to fish : EC50 (Danio rerio (zebra fish)): > 12.6 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 24 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (algae)): 14.3 mg/l
Exposure time: 72 h

EC10 (Pseudokirchneriella subcapitata (algae)): 10.4 mg/l
Exposure time: 72 h

Phenol, isopropylated, phosphate (3:1):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.36 mg/l
Exposure time: 96 h

LC50 (Cyprinodon variegatus (sheepshead minnow)): > 1.3 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 1 mg/l
Exposure time: 48 h

LC50 (Mysidopsis bahia (opossum shrimp)): > 1 mg/l

Toxicity to algae/aquatic plants : NOEC (Desmodesmus subspicatus (green algae)): 0.25 - 2.5 mg/l
Exposure time: 72 h
Test Type: Alga, Growth Inhibition Test

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

triphenylphosphate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.4 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 (Americamysis): > 0.18 - < 0.32 mg/l
Exposure time: 96 h

Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (algae)): 0.25 mg/l
Exposure time: 72 h

Toxicity to fish (Chronic toxicity) : EC10 (Oncorhynchus mykiss (rainbow trout)): 0.037 mg/l
Exposure time: 30 d

Toxicity to daphnia and other aquatic invertebrates (Chronic) : NOEC (Daphnia magna (Water flea)): 0.254 mg/l
Exposure time: 21 d

Skydrol® PE-5

Version	Revision Date:	SDS Number:	Date of last issue: 09.03.2021
1.6	03.01.2023	15000093410	Date of first issue: 03.06.2015
PRD		SDSAU / EN / 0001	

ic toxicity)

Persistence and degradability**Components:****Tributyl phosphate:**

Biodegradability : Result: Readily biodegradable.

Triisobutyl phosphate:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 70 - 80 %
Exposure time: 28 d
Method: Ready Biodegradability: CO2 Evolution Test

Phenol, isopropylated, phosphate (3:1):

Biodegradability : Remarks: Not 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

triphenylphosphate:

Biodegradability : Result: Readily biodegradable.

Bioaccumulative potential**Components:****Tributyl phosphate:**

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

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

Partition coefficient: n-octanol/water : Pow: 10,100

Triisobutyl phosphate:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 3.72

Phenol, isopropylated, phosphate (3:1):

Skydrol® PE-5

Version	Revision Date:	SDS Number:	Date of last issue: 09.03.2021
1.6	03.01.2023	15000093410	Date of first issue: 03.06.2015
PRD		SDSAU / EN / 0001	

Bioaccumulation : Remarks: Potential bioaccumulation

triphenylphosphate:

Partition coefficient: n-octanol/water : log Pow: 4.63

Mobility in soil**Components:****Phenol, isopropylated, phosphate (3:1):**

Distribution among environmental compartments : log Koc: 3.43 - 3.93

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : Dispose of in accordance with local regulations.

SECTION 14. TRANSPORT INFORMATION**International Regulations****IATA-DGR**

UN/ID No. : UN 3082
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s. (triphenyl phosphate)
Class : 9
Packing group : III
Labels : Miscellaneous
Packing instruction (cargo aircraft) : 964
Packing instruction (passenger aircraft) : 964
Remarks : Shipping in package sizes of less than 5 L (liquids) or 5 KG (solids) may lead to a non-regulated classification.

IMDG-Code

UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (triphenyl phosphate)
Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes
Remarks : Shipping in package sizes of less than 5 L (liquids) or 5 KG

Skydrol® PE-5

Version	Revision Date:	SDS Number:	Date of last issue: 09.03.2021
1.6	03.01.2023	150000093410	Date of first issue: 03.06.2015
PRD		SDSAU / EN / 0001	

(solids) may lead to a non-regulated classification.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations**Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION**Safety, health and environmental regulations/legislation specific for the substance or mixture**

Standard for the Uniform : Schedule 5
Scheduling of Medicines and
Poisons

Prohibition/Licensing Requirements : There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.

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

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

AIIC : 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

SECTION 16. OTHER INFORMATION

Revision Date : 03.01.2023

Date format : dd.mm.yyyy

Full text of other abbreviations

Skydrol® PE-5

Version	Revision Date:	SDS Number:	Date of last issue: 09.03.2021
1.6	03.01.2023	150000093410	Date of first issue: 03.06.2015
PRD		SDSAU / EN / 0001	

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
 AU OEL : Australia. Workplace Exposure Standards for Airborne Contaminants.

ACGIH / TWA : 8-hour, time-weighted average
 AU OEL / TWA : Exposure standard - time weighted average

AIIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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.

AU / EN