

SAFETY DATA SHEET



Castrol Transmax Axle Long Life 75W-140

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

Product identifier Castrol Transmax Axle Long Life 75W-140
SDS # 469697
Code 469697-DE01

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

Product use Gear lubricant
For specific application advice see appropriate Technical Data Sheet or consult our company representative.

Manufacturer BP Lubricants USA Inc.
1500 Valley Road
Wayne, NJ 07470
Telephone: +1-888-CASTROL

Supplier PAN AMERICAN ENERGY S.L., SUCURSAL
ARGENTINA AV. LEANDRO N. ALEM 1180
PISO 11 – C1001AAT
CIUDAD AUTÓNOMA DE BUENOS AIRES.

EMERGENCY HEALTH INFORMATION:

Consultas Técnicas 0800-888-8088
TELÉFONO PARA EMERGENCIAS (24 HORAS) CIQUIME: 0800-222-2933
+1-800-424-9300 (CHEMTREC USA)
+1-703-527-3887 (CHEMTREC outside the US)

EMERGENCY TELEPHONE NUMBER

SECTION 2: Hazards identification

Classification of the substance or mixture TOXIC TO REPRODUCTION - Category 2
AQUATIC HAZARD (ACUTE) - Category 3
AQUATIC HAZARD (LONG-TERM) - Category 3

GHS label elements

Hazard pictograms



Signal word Warning

Hazard statements H361 - Suspected of damaging fertility or the unborn child.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

P102 - Keep out of reach of children.
P101 - If medical advice is needed, have product container or label at hand.
P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P280 - Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection.
P273 - Avoid release to the environment.

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

Storage P405 - Store locked up.

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SECTION 2: Hazards identification

Disposal

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other hazards which do not result in classification

None known.

SECTION 3: Composition/information on ingredients

Substance/mixture

Mixture

Other means of identification

Not available.

Ingredient name	%	CAS number
Decene, homopolymer, hydrogenated	≤10	CAS: 68037-01-4
Dec-1-ene, homopolymer, hydrogenated	≤10	CAS: 68037-01-4
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	≤10	CAS: 68037-01-4
tris(methylphenyl) phosphate	≤1.2	CAS: 1330-78-5
Amines, C12-14-tert-alkyl	≤0.2	CAS: 68955-53-3
(Z)-octadec-9-enylamine	≤0.1	CAS: 112-90-3
Alcohols, C12-16, ethoxylated	≤0.1	CAS: 68551-12-2

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

Description of necessary first aid measures

Eye contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention.

Skin contact

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention. If skin irritation or rash occurs: Get medical advice/attention.

Inhalation

If inhaled, remove to fresh air. Get medical attention.

Ingestion

Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Get medical attention.

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Most important symptoms/effects, acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

Treatment should in general be symptomatic and directed to relieving any effects.

Specific treatments

No specific treatment.

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SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media Use foam or all-purpose dry chemical to extinguish.

Unsuitable extinguishing media Do not use water jet.

Specific hazards arising from the chemical

Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects.

Hazardous thermal decomposition products

Combustion products may include the following:
phosphorus oxides
carbon oxides (CO, CO₂) (carbon monoxide, carbon dioxide)

Special protective actions for fire-fighters

No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

Special protective equipment for fire-fighters

Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Contact emergency personnel. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling.

For emergency responders

Entry into a confined space or poorly ventilated area contaminated with vapor, mist or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. Wear self-contained breathing apparatus. Wear a suitable chemical protective suit. Chemical resistant boots. See also the information in "For non-emergency personnel".

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

Methods and materials for containment and cleaning up

Small spill

Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Contaminated absorbent material may pose the same hazard as the spilled product. Dispose of via a licensed waste disposal contractor.

SECTION 7: Handling and storage

Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Avoid contact of spilled material and runoff with soil and surface waterways.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. Contaminated work clothing should not be allowed out of the workplace. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Store and use only in equipment/containers designed for use with this product. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Not suitable

Prolonged exposure to elevated temperature

SECTION 8: Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

Biological exposure indices

No exposure indices known.

Appropriate engineering controls

All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.

Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards.

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits.

The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

Environmental exposure 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.

Individual protection measures

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SECTION 8: Exposure controls/personal protection

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Safety glasses with side shields.

Skin protection

Hand protection

Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves. Recommended: Nitrile gloves. The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

Body protection

Use of protective clothing is good industrial practice. 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. Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state	Liquid.
Color	Amber.
Odor	Not available.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Boiling point or initial boiling point and boiling range	Not available.
Flash point	Open cup: >180°C (>356°F) [Cleveland]
Pour point	-54 °C
Evaporation rate	Not available.
Flammability	Not available.
Lower and upper explosion limit/flammability limit	Not available.

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SECTION 9: Physical and chemical properties

Vapor pressure	>0.01 kPa
Relative vapor density	Not available.
Density	<1000 kg/m ³ (<1 g/cm ³) at 15°C
Solubility(ies)	

Media	Result
water	Not soluble

Partition coefficient: n-octanol/water Not applicable.

Auto-ignition temperature

Ingredient name	°C	°F	Method
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	343 to 369	649.4 to 696.2	ASTM D 2159
1-Decene, homopolymer, hydrogenated	343 to 369	649.4 to 696.2	ASTM D 2159
Dec-1-ene, homopolymer, hydrogenated	343 to 369	649.4 to 696.2	ASTM D 2159
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	343 to 369	649.4 to 696.2	ASTM D 2159

Decomposition temperature Not available.

Viscosity Kinematic: 182 mm²/s (182 cSt) at 40°C
Kinematic: 24.5 to 25.5 mm²/s (24.5 to 25.5 cSt) at 100°C

Particle characteristics

Median particle size Not applicable.

SECTION 10: Stability and reactivity

Reactivity No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.

Chemical stability The product is stable.

Possibility of hazardous reactions Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid Avoid all possible sources of ignition (spark or flame).

Incompatible materials Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition products Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result
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SECTION 11: Toxicological information

-Decene, homopolymer, hydrogenated

Rat - Oral - LD50

>5000 mg/kg

OECD 423

Rat - Dermal - LD50

>2000 mg/kg

OECD 402

Rat - Inhalation - LD50 Dusts and mists

>5.2 mg/l [4 hours]

OECD 403

Dec-1-ene, homopolymer, hydrogenated

Rat - Oral - LD50

>5000 mg/kg

OECD 423

Rat - Dermal - LD50

>2000 mg/kg

OECD 402

Rat - Inhalation - LD50 Dusts and mists

>5.2 mg/l [4 hours]

OECD 403

Dec-1-ene, homopolymer, hydrogenated
Dec-1-ene, oligomers, hydrogenated

Rat - Oral - LD50

>5000 mg/kg

OECD 423

Rat - Dermal - LD50

>2000 mg/kg

OECD 402

Rat - Inhalation - LD50 Dusts and mists

>5.2 mg/l [4 hours]

OECD 403

Amines, C12-14-tert-alkyl

Rat - Oral - LD50

612 mg/kg

OECD 401

Rat - Dermal - LD50

251 mg/kg

OECD 402

Rat - Inhalation - LC50 Vapor

1.19 mg/l [4 hours]

OECD 403

(Z)-octadec-9-enylamine

Rat - Oral - LD50

1689 mg/kg

OECD 401

Skin corrosion/irritation

Product/ingredient name

-Decene, homopolymer, hydrogenated

Dec-1-ene, homopolymer, hydrogenated

Dec-1-ene, homopolymer, hydrogenated

Dec-1-ene, oligomers, hydrogenated

Amines, C12-14-tert-alkyl

(Z)-octadec-9-enylamine

Result

Rabbit - Skin - Non-irritant to skin.

OECD 404

Rabbit - Skin - Non-irritant to skin.

OECD 404

Rabbit - Skin - Non-irritant to skin.

OECD 404

Rabbit - Skin - Visible necrosis

Rabbit - Skin - Visible necrosis

OECD 404

Serious eye damage/eye irritation

Product/ingredient name

Result

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SECTION 11: Toxicological information

-Decene, homopolymer, hydrogenated

Dec-1-ene, homopolymer, hydrogenated

Dec-1-ene, homopolymer, hydrogenated

Dec-1-ene, oligomers, hydrogenated

Amines, C12-14-tert-alkyl

(Z)-octadec-9-enylamine

Rabbit - Eyes - Non-irritating to the eyes.

OECD 405

Rabbit - Eyes - Non-irritating to the eyes.

OECD 405

Rabbit - Eyes - Non-irritating to the eyes.

OECD 405

Rabbit - Eyes - Visible necrosis

Rabbit - Eyes - Severe irritant

OECD 405

Respiratory corrosion/irritation

Not available.

Respiratory or skin sensitization

Product/ingredient name

-Decene, homopolymer, hydrogenated

Dec-1-ene, homopolymer, hydrogenated

Dec-1-ene, homopolymer, hydrogenated

Dec-1-ene, oligomers, hydrogenated

Amines, C12-14-tert-alkyl

Result

Guinea pig - skin

OECD 406

Result: Not sensitizing

Guinea pig - skin

OECD 406

Result: Not sensitizing

Guinea pig - skin

OECD 406

Result: Not sensitizing

Guinea pig - skin

OECD 406

Result: Sensitizing

Germ cell mutagenicity

Product/ingredient name

-Decene, homopolymer, hydrogenated

Dec-1-ene, homopolymer, hydrogenated

Dec-1-ene, homopolymer, hydrogenated

Dec-1-ene, oligomers, hydrogenated

Result

In vitro - Bacteria

OECD [Bacterial Reverse Mutation Test]

Result: Negative

In vitro - Mammal - species unspecified

OECD [In vitro Mammalian Chromosomal Aberration Test]

Result: Negative

In vivo - Mammal - species unspecified

OECD [Mammalian Erythrocyte Micronucleus Test]

Result: Negative

In vitro - Bacteria

OECD [Bacterial Reverse Mutation Test]

Result: Negative

In vitro - Mammal - species unspecified

OECD [In vitro Mammalian Chromosomal Aberration Test]

Result: Negative

In vivo - Mammal - species unspecified

OECD [Mammalian Erythrocyte Micronucleus Test]

Result: Negative

In vitro - Bacteria

OECD [Bacterial Reverse Mutation Test]

Result: Negative

In vitro - Mammal - species unspecified

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SECTION 11: Toxicological information

Amines, C12-14-tert-alkyl	OECD [In vitro Mammalian Chromosomal Aberration Test] <u>Result</u> : Negative In vivo - Mammal - species unspecified OECD [Mammalian Erythrocyte Micronucleus Test] <u>Result</u> : Negative In vitro - Bacteria Bacterial Reverse Mutation Test <u>Result</u> : Negative In vitro - Mammal - species unspecified In vitro Mammalian Cell Gene Mutation Test <u>Result</u> : Negative In vivo - Mammal - species unspecified Mammalian Erythrocyte Micronucleus Test <u>Result</u> : Negative In vitro - Bacteria OECD 471 <u>Result</u> : Negative In vitro - Unspecified OECD 473 <u>Result</u> : Negative In vitro - Mammal - species unspecified OECD 476 <u>Result</u> : Negative
(Z)-octadec-9-enylamine	

Carcinogenicity

Not available.

Reproductive toxicity

Product/ingredient name

 Decene, homopolymer, hydrogenated

Dec-1-ene, homopolymer, hydrogenated

Dec-1-ene, homopolymer, hydrogenated
Dec-1-ene, oligomers, hydrogenated

Amines, C12-14-tert-alkyl

(Z)-octadec-9-enylamine

Result

Rat - Oral

OECD 415
Maternal toxicity: Negative
Fertility effects: Negative
Developmental: Negative

Rat - Oral

OECD 415
Maternal toxicity: Negative
Fertility effects: Negative
Developmental: Negative

Rat - Oral

OECD 415
Maternal toxicity: Negative
Fertility effects: Negative
Developmental: Negative

Rat - Oral

OECD 415
Maternal toxicity: Negative
Fertility effects: Negative
Developmental: Negative

Rat - Oral

OECD 421
Maternal toxicity: Positive
Fertility effects: Negative
Developmental: Negative

SECTION 11: Toxicological information

Specific target organ toxicity (single exposure)

Product/ingredient name

(Z)-octadec-9-enylamine

Result

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

Specific target organ toxicity (repeated exposure)

Product/ingredient name

(Z)-octadec-9-enylamine

Result

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

Aspiration hazard

Product/ingredient name

1-Decene, homopolymer, hydrogenated
Dec-1-ene, homopolymer, hydrogenated
Dec-1-ene, homopolymer, hydrogenated
Dec-1-ene, oligomers, hydrogenated
(Z)-octadec-9-enylamine

Result

ASPIRATION HAZARD - Category 1
ASPIRATION HAZARD - Category 1
ASPIRATION HAZARD - Category 1
ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

Eye contact

No known significant effects or critical hazards.

Skin contact

Defatting to the skin. May cause skin dryness and irritation.

Inhalation

Vapor inhalation under ambient conditions is not normally a problem due to low vapor pressure.

Ingestion

No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact

No specific data.

Skin contact

Adverse symptoms may include the following:
irritation
dryness
cracking
reduced fetal weight
increase in fetal deaths
skeletal malformations

Inhalation

May be harmful by inhalation if exposure to vapor, mists or fumes resulting from thermal decomposition products occurs.

Ingestion

Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects

Not available.

Potential delayed effects

Not available.

Long term exposure

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Potential immediate effects Not available.

Potential delayed effects Not available.

Potential chronic health effects

General No known significant effects or critical hazards.

Carcinogenicity No known significant effects or critical hazards.

Mutagenicity No known significant effects or critical hazards.

Developmental effects No known significant effects or critical hazards.

Fertility effects Suspected of damaging fertility.

Numerical measures of toxicity

Acute toxicity estimates

Route

Not available.

SECTION 12: Ecological information

Toxicity

Product/ingredient name

Result

Decene, homopolymer, hydrogenated

Acute - EL50

Equivalent to OECD 201

Algae

>1000 mg/l [72 hours]

Acute - EL50

OECD 202

Daphnia

>1000 mg/l [48 hours]

Chronic - NOELR

OECD 211

Daphnia

125 mg/l [21 days]

Acute - LL50

OECD 203

Fish

>1000 mg/l [96 hours]

Dec-1-ene, homopolymer, hydrogenated

Acute - EL50

Equivalent to OECD 201

Algae

>1000 mg/l [72 hours]

Acute - EL50

OECD 202

Daphnia

>1000 mg/l [48 hours]

Chronic - NOELR

OECD 211

Daphnia

125 mg/l [21 days]

Acute - LL50

OECD 203

Fish

>1000 mg/l [96 hours]

Dec-1-ene, homopolymer, hydrogenated
Dec-1-ene, oligomers, hydrogenated

Acute - EL50

OECD 201

SECTION 12: Ecological information

Algae
>1000 mg/l [72 hours]

Acute - EL50

OECD 202
Daphnia
>1000 mg/l [48 hours]

Chronic - NOELR

OECD 211
Daphnia
125 mg/l [21 days]

Acute - LL50

OECD 203
Fish
>1000 mg/l [96 hours]

Amines, C12-14-tert-alkyl

Acute - ErC50

OECD 201
Algae
0.44 mg/l [72 hours]

Acute - EC50

OECD 202
Daphnia
2.5 mg/l [48 hours]

Acute - LC50

OECD 203
Fish
1.3 mg/l [96 hours]

Acute - EC50

OECD 209
Micro-organism
63.5 mg/l [3 hours]

Chronic - NOEC

OECD 201
Algae
0.05 mg/l [72 hours]

(Z)-octadec-9-enylamine

Acute - ErC50

OECD 201
Algae
0.04 mg/l [96 hours]

Chronic - NOEC

OECD 201
Algae
0.01 mg/l [96 hours]

Chronic - NOEC

OECD 211
Daphnia
0.013 mg/l [21 days]

Acute - LC50

EPA OPPTS 850.1085
Fish
0.06 mg/l [96 hours]

Environmental effects

This material is harmful to aquatic life with long lasting effects.

Persistence and degradability

Not expected to be rapidly degradable.

Product/ingredient name

Result

SECTION 12: Ecological information

Amines, C12-14-tert-alkyl

OECD 301D

21.8% [28 days] - Not readily

(Z)-octadec-9-enylamine

OECD 301B

66% [28 days] - Readily

Bioaccumulative potential

This product is not expected to bioaccumulate through food chains in the environment.

Mobility in soil

Soil/Water partition coefficient

Not available.

Mobility

Spillages may penetrate the soil causing ground water contamination.

Other adverse effects

No known significant effects or critical hazards.

Other ecological information

Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

SECTION 13: Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA/ICAO
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

Special precautions for user Not available.

SECTION 14: Transport information

Transport in bulk according to IMO instruments Not available.

SECTION 15: Regulatory information

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Other regulations

Australia inventory (AIC) All components are listed or exempted.

Canada inventory All components are listed or exempted.

China inventory (IECSC) All components are listed or exempted.

Japan inventory (CSCL) All components are listed or exempted.

Korea inventory (KECI) All components are listed or exempted.

Philippines inventory (PICCS) All components are listed or exempted.

Taiwan Chemical Substances Inventory (TCSI) All components are listed or exempted.

United States inventory (TSCA 8b) All components are active or exempted.

REACH Status The company, as identified in Section 1, sells this product in the EU in compliance with the current requirements of REACH.

SECTION 16: Other information

History

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Prepared by Product Stewardship

Key to abbreviations

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

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UN = United Nations

VOC = Volatile Organic Compound

Varies = may contain one or more of the following 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64742-01-4, 64742-44-5, 64742-45-6, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-63-8, 64742-65-0, 64742-70-7, 72623-85-9, 72623-86-0, 72623-87-1

✔ Indicates information that has changed from previously issued version.

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