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SAFETY DATA SHEETS

According to the UN GHS revision 10

Version: 1.1
Creation Date: July 15, 2024
Revision Date: February 12, 2025

SECTION 1: Identification

1.1 GHS Product identifier

Product name

0AWH8BFG9A 6HQ855798J N72LMW566G ELB3Y6474W 6SU0SC83AH 9002-92-0 002FR4N8OV APG12V4K45 KZF7XN8153 MGU0HEW21Q QU7U88D04I RPD53041LR W9D845551A WG3R46N0SV OAH19558U1 Z95S6G8201 BD7AST04GA Polidocanol Dodecyl alcohol, ethoxylated Laureth-11 Laureth 4 [USAN] Laureth 9 [USAN] Lauromacrogol 400 [INN] 3,6,9,12,15,18,21,24,27-Nonaoxanonatriacontan-1-ol PEG-11 Lauryl ether A mixture of monolauryl ethers of polyoxyethylene glycols having a statistical average of 8 ethylene oxide groups per molecule alpha-Dodecyl-omega-hydroxypoly(oxy-1,2ethanediyl) Glycols, polyethylene, monododecyl ether Poly(oxy-1,2-ethanediyl), alpha-dodecyl-omega-hydroxy- Dodecan-1-ol, ethoxylated G 3707 Atlas G-2133 Atlas G-3705 Base LP 12 BL 9 Brij 23 Brij 30 Brij 35 CCRIS 3397 Dodecanol, ethoxylate Dodecyl alcohol polyoxyethylene ether Du Pont WK Ethosperse LA 12 Ethosperse LA 23 Ethoxylated lauryl alcohol HSDB 4351 Hydroxypolyethoxydodecane LA 7 LA (Alcohol) Laureth Laureth 9 Lipal 4LA Lubrol 12A9 Lubrol PX Marlipal 1217 Mergital LM 11 NCI-C54875 Newcol 1203 Nikkol BL Noigen ET 160 Noigen ET 170 Noigen YX 500 Noniolite AL 20 Pegnol L 12 Polyethylene glycol monododecyl ether Polyoxyethylene lauryl ether Rokanol L Romopal LN Simulsol P 23 Simulsol P 4 Siponic L Slovasol S Standamul LA 2 Surfactant WK Texofor B 9 Thesat Thesit alpha-Dodecyl-omega-hydroxypoly(oxy-1,2-ethanediyl) alpha-Dodecyl-omega-hydroxypoly(oxyethylene) 40L (polyether) Actinol L3 Actinol L 7 Adeka Carpol M 2 Adeka Carpol MBF 100 Adekatol LA 1275 Aethoxysklerol Akyporox RLM 160 Akyporox RLM 22 Akyporox RLM 230 Akyporox RLM 40 Aldosperse L 9 Alkasurf LAN 1 Alkasurf LAN 3 Arapol 0712 Atlas G 2133 Atlas G 3705 Atlas G 3707 Atlas G 4829 Stmer 135 B 205 Brij 22 Brij 30ICI Brij 35L Brij 30SP Brij 36T Calgene 40L Carsonol L 2 Carsonol L 3 Chemal LA 23 Chimipal AE 3 Conion 275-80 Conion 2P80 Conion 275-30 Conion 275-100 Conion 275-20 Cimagel BL 9 (polyglycol) Polyethylene glycol monolauryl ether Polyethylene glycol monododecyl ether, the name is followed by a number (400) corresponding approximately to the average molecular mass of the polyethylene glycol portion Laureth 4 Aetoxisclerol Atossisclerol Ethoxysclerol Nonaethyleneglycol monododecyl ether Polyoxyethylene 9-lauryl ether Polyoxyethylenedodecyl ether UNII-6HQ855798J UNII-N72LMW566G UNII-0AWH8BFG9A Lauromacrogol 400 UNII-6SU0SC83AH UNII-OAH19558U1 Polyoxyl lauryl ether UNII-002FR4N8OV UNII-APG12V4K45 UNII-KZF7XN8153 UNII-MGU0HEW21Q UNII-QU7U88D04I UNII-RPD53041LR UNII-W9D845551A UNII-WG3R46N0SV UNII-ELB3Y6474W Lauromacrogol UNII-BD7AST04GA EC 500-002-6 UNII-Z95S6G8201 Polyoxyethylene dodecyl mono ether alpha-Alkyl-omega-hydroxypoly(oxypropylene) and/or poly(oxyethylene) polymers where the alkyl chain contains a minimum of six carbons, minimum number average molecular weight (in amu) 1,100

1.2 Other means of identification

Product number C1928260
Other names -

1.3 Recommended use of the chemical and restrictions on use

Identified uses For laboratory and Industrial use only.
Uses advised against no data available

1.4 Supplier's details

Company CATO Research Chemicals Inc.
Address 3/F,Building B,No.179 BASIGO, Guangpu Rd East,Huangpu Dist,Guangzhou
Telephone +86-20-81960175

1.5 Emergency phone number

Emergency phone number +86-20-81960175
Service hours 'Monday to Friday, 9am-5pm (Standard time zone: UTC/GMT +8 hours).

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

Acute toxicity - Category 4, Oral
Serious eye damage, Category 1
Hazardous to the aquatic environment, short-term (Acute) - Category Acute 1

2.2 GHS label elements, including precautionary statements

Pictogram(s)



Signal word Danger

Hazard statement(s)
H302 Harmful if swallowed
H315 Causes skin irritation
H318 Causes serious eye damage
H341 Suspected of causing genetic defects
H350 May cause cancer
H373 May cause damage to organs through prolonged or repeated exposure
H412 Harmful to aquatic life with long lasting effects

Precautionary statement(s)

Prevention
P264 Wash ... thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...
P273 Avoid release to the environment.

Response
P301+P317 IF SWALLOWED: Get medical help.
P330 Rinse mouth.
P305+P354+P338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P317 Get medical help.
P391 Collect spillage.

Storage none

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 which do not result in classification

no data available

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical name	Common names and synonyms	CAS number	EC number	Concentration

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SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

If inhaled

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

Following skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

Following eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

Following ingestion

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

4.2 Most important symptoms/effects, acute and delayed

no data available

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

no data available

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Use dry chemical, carbon dioxide or alcohol-resistant foam.

5.2 Specific hazards arising from the chemical

no data available

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapours.Avoid contacting with skin and eye. Use personal protective equipment.Wear chemical impermeable gloves. Ensure adequate ventilation.Remove all sources of ignition. Evacuate personnel to safe areas.Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

7.2 Conditions for safe storage, including any incompatibilities

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure limit values

no data available

Biological limit values

no data available

8.2 Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

Skin protection

Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

Thermal hazards

no data available

SECTION 9: Physical and chemical properties and safety characteristics

Physical state	Liquid.
Colour	Colourless.
Odour	no data available
Melting point/freezing point	-5 °C. Atm. press.:995 hPa. Remarks:Other details not available.
Boiling point or initial boiling point and boiling range	213.9 °C. Atm. press.:995 hPa. Remarks:Other details not available.
Flammability	no data available
Lower and upper explosion limit/flammability limit	no data available
Flash point	138 °C. Atm. press.:995 hPa.
Auto-ignition temperature	Atm. press.:995 hPa. Remarks:Dodecan-1-ol, ethoxylated did not catch fire on being exposed to air at room temperature of 23 deg C .
Decomposition temperature	no data available

pH	6.8. Remarks:Near neutral pH.
Kinematic viscosity	dynamic viscosity (in mPa s) = 61.524. Temperature:23.0°C.
Solubility	In water: 8 000 mg/L. Temperature:23 °C. Remarks:Soluble..Methanol. Remarks:Very soluble.
Partition coefficient n-octanol/water	Pow = 86.5. Temperature:23 °C.
Vapour pressure	0 Pa. Temperature:25 °C.
Density and/or relative density	0.918 g/cm³. Temperature:23 °C.
Relative vapour density	no data available
Particle characteristics	no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

no data available

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

no data available

10.6 Hazardous decomposition products

no data available

SECTION 11: Toxicological information

Acute toxicity

- Oral: LD50 - rat (female) - 1 000 mg/kg bw.
- Inhalation: no data available
- Dermal: LD50 - rat (male/female) - > 2 000 mg/kg bw.

Skin corrosion/irritation

no data available

Serious eye damage/irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT-single exposure

no data available

STOT-repeated exposure

no data available

Aspiration hazard

no data available

SECTION 12: Ecological information

12.1 Toxicity

- Toxicity to fish: LC50 - Oryzias latipes - 3.5 mg/L - 48 h.
- Toxicity to daphnia and other aquatic invertebrates: LC50 - Gammarus italicus - 9.45 mg/L - 24 h.
- Toxicity to algae: EC50 - Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) - 2.06 mg/L - 72 h.

- Toxicity to microorganisms: IGC50 - Tetrahymena pyriformis - 3.122 mg/L - 48 h.

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Other adverse effects

no data available

SECTION 13: Disposal considerations

13.1 Disposal methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

SECTION 14: Transport information

14.1 UN Number

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.)

IATA: Not dangerous goods. (For reference only, please check.)

14.2 UN Proper Shipping Name

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.)

IATA: Not dangerous goods. (For reference only, please check.)

14.3 Transport hazard class(es)

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.)

IATA: Not dangerous goods. (For reference only, please check.)

14.4 Packing group, if applicable

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.)

IATA: Not dangerous goods. (For reference only, please check.)

14.5 Environmental hazards

ADR/RID: Yes

IMDG: Yes

IATA: Yes

14.6 Special precautions for user

no data available

14.7 Transport in bulk according to IMO instruments

no data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

Chemical name	Common names and synonyms	CAS number	EC number
Dodecan-1-ol, ethoxylated	Dodecan-1-ol, ethoxylated	9002-92-0	500-002-6
European Inventory of Existing Commercial Chemical Substances (EINECS)			Not Listed.
EC Inventory			Listed.
United States Toxic Substances Control Act (TSCA) Inventory			Listed.
China Catalog of Hazardous chemicals 2015			Not Listed.
New Zealand Inventory of Chemicals (NZIoC)			Listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS)			Listed.

Vietnam National Chemical Inventory	Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)	Listed.
Korea Existing Chemicals List (KECL)	Listed.

SECTION 16: Other information

Information on revision

Creation Date	July 15, 2024
Revision Date	February 12, 2025

Abbreviations and acronyms

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

References

- IPCS - The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home
- HSDB - Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm
- IARC - International Agency for Research on Cancer, website: http://www.iarc.fr/
- eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en
- CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple
- ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
- ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg
- Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp
- ECHA - European Chemicals Agency, website: https://echa.europa.eu/

Any questions regarding this SDS, Please send your inquiry to info@cato-chem.com

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