



MAXGARD® DPA-8

SAFETY DATA SHEET

Replaced Version 2013-12-01
Revision Date 2015-12-07

1. PRODUCT AND COMPANY INFORMATION

Product Name : 2-Ethylhexyl-2-cyano-3,3-diphenylacrylate
Product Number : MAXGARD® DPA-8
Brand : MAXGARD®
REACH Status : Pre-registered 2008-09-17
Identified Uses : UV stabilizer; Laboratory chemicals; Manufacture of substances
Company : Lycus Ltd., LLC
181 Cooper Drive
El Dorado, AR 71730-6601
USA

Telephone : +1 870-881-5000
Fax : +1 870-862-9628
Emergency Phone Number : +1 800-424-9300 (CHEMTREC)

2. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards No known OSHA hazards

GHS Label elements, including precautionary statements

Pictogram None

Signal Word None

Hazard statement(s)

H413 May cause long lasting harmful effects to aquatic life.

Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapor/spray.

P273 Avoid release to the environment.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

HMIS Classification

Health Hazard	1	Blue
Flammability	1	Red
Physical Hazards	0	Orange

NFPA 704 Rating

Health Hazard	1	Blue
Fire	1	Red
Reactivity Hazard	0	Yellow

**MAXGARD® DPA-8****SAFETY DATA SHEET**Replaced Version 2013-12-01
Revision Date 2015-12-07**Potential Health Effects**

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

EU/International Classification of the substance or mixture**According to Regulation (EC) No1272/2008**

Chronic aquatic toxicity (Category 4)

According to European Directive 67/548/EEC as amended.

Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

EU/International Label elements**Hazard symbol(s)**

None

R-phrases

R52/53 Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

S-phrases

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37/39 Wear suitable gloves and eye/face protection.

Other Hazards

None

3. COMPOSITION/INFORMATION OF INGREDIENTS

Formula	:	C ₂₄ H ₂₇ NO ₂
Molecular Weight	:	361.48 g/mol
Synonyms	:	Octocrylene; Octocrilene; Acrylic acid, 2-cyano-3,3-diphenyl-, 2-ethylhexyl ester-; 2'-Ethylhexyl 2-cyano-3,3-diphenylcinnamate; 2-Propenoic acid, 2-cyano-diphenyl-, 2-ethylhexyl ester; Agent AT 539; Sanduvor 3039; Uvinul 3039

CAS-No.	EC-No.	Index-No.	EU/International Classification	Concentration
2-Ethylhexyl-2-cyano-3,3-diphenylacrylate				
6197-30-4	228-250-8	-	Aquatic Chronic 4; H413, R52/53	99%

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES



MAXGARD® DPA-8

SAFETY DATA SHEET

Replaced Version 2013-12-01
Revision Date 2015-12-07

General advice

Remove contaminated clothing. Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes with eyelids held open. Consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water and then drink plenty of water. Do NOT induce vomiting. Consult a physician.

Note to physician

Treatment: Symptomatic treatment (decontamination, vital functions). No known specific antidote.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use water spray, alcohol-resistant foam or dry chemical. Carbon dioxide is not recommended because it is an asphyxiant.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions. – Carbon oxides; Nitrogen oxides; Hydrogen cyanide (hydrocyanic acid)

Special protective equipment for fire-fighters

Firefighters should wear self-contained breathing apparatus and turn-out gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Vapors can accumulate in low areas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see Section 13). Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE



MAXGARD® DPA-8

SAFETY DATA SHEET

Replaced Version 2013-12-01
Revision Date 2015-12-07

Precautions for safe handling

Avoid inhalation of vapor or mist.
Provide appropriate exhaust ventilation at places where vapors accumulate.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

Personal protective equipment

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Ensure respirators conform to 29 CFR 1910.134.

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. 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.

Eye protection

Eye and face protection conforming to 29 CFR 1910.133 or EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin and body protection

Impervious clothing, the type of protective clothing must be selected according to the concentration and amount of dangerous substance at the specific workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	viscous liquid
Color	clear, light amber



MAXGARD® DPA-8

SAFETY DATA SHEET

Replaced Version 2013-12-01
Revision Date 2015-12-07

Safety data

Odor	characteristic
pH	no data available
Melting point	-10 °C
Boiling point	218 °C at 2 mbar
Flash point	113 °C – closed cup
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Water solubility	insoluble
Density	1.05 g/cm ³ (25 °C)

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions

Conditions to avoid

No conditions known that should be avoided

Materials to avoid

Strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. – Carbon oxides; Nitrogen oxides; Hydrogen cyanide (hydrocyanic acid)

Corrosion to metals

No corrosive effect on metal

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral	LD50 Oral – rat - >5,000 mg/kg
Dermal	no data available
Inhalation	no data available

Skin corrosion/irritation

Skin irritation rabbit – no skin irritation

Serious eye damage/eye irritation

Eye irritation rabbit – no eye irritation

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available



MAXGARD® DPA-8

SAFETY DATA SHEET

Replaced Version 2013-12-01
Revision Date 2015-12-07

Genotoxicity in vitro – Not mutagenic in Ames Test.

Carcinogenicity

IARC	No component of this product present at levels greater than or equal to 0.1% is identified as possible or confirmed human carcinogen by IARC.
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

Specific target organ toxicity – single exposure

Inhalation	May cause respiratory irritation.
------------	-----------------------------------

Specific target organ toxicity – repeated exposure

No data available

Aspiration hazard

No data available

Potential health effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information

RTECS	UD3328750
-------	-----------

12. ECOLOGICAL INFORMATION

Eco toxicity

Acute and Chronic toxicity to fish

Fish, unspecified/LC50 (96 h):	>0.5 mg/l Water soluble part barely toxic for fish.
--------------------------------	--

Acute toxicity to microorganisms

bacterium/EC50 (nominal concentration):	>10,000 mg/l
bacterium/EC50 (activated sludge):	>100 mg/l Barely toxic for microorganisms.

Acute toxicity to aquatic invertebrates

Daphnia magna/EC0 (48 h):	2.0 mg/l
Daphnia magna/EC50 (48 h):	3.6 mg/l



MAXGARD® DPA-8

SAFETY DATA SHEET

Replaced Version 2013-12-01
Revision Date 2015-12-07

Daphnia magna/EC100 (48 h):

6.5 mg/l (EEC, L 383 A, C.2)
Strongly toxic for planktrophic crustaceans.

Other Eco toxicological advice

Do not release untreated into natural waters.

Persistence and degradability

Biodegradation

Test method: OECD 310C; MITI Test I
Degree of elimination: 20% - Not readily biodegradable.
Evaluation: Poor biodegradability.

Bio accumulative potential

No data available

Mobility in soil

No data available

PBT and vPvB assessment

No data available

Other adverse effects

Very toxic to aquatic life.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. DISPOSAL CONSIDERATIONS

Product

Offer surplus and non-recyclable materials to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

RCRA requirements

None

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

TDG (Canada)



MAXGARD® DPA-8

SAFETY DATA SHEET

Replaced Version 2013-12-01
Revision Date 2015-12-07

Not dangerous goods

ICAO/IATA

Not dangerous goods

ADR/RID

Not dangerous goods

15. REGULATORY INFORMATION

OSHA Hazards

No known OSHA hazards

TSCA Inventory

CAS No. 6197-30-4 is listed/approved

SARA 302 Components

SARA 302: No chemicals in this material are subject to the requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312

No SARA hazards

Massachusetts Right to Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know Components

2-Ethylhexyl-2-cyano-3,3-diphenylacrylate

CAS No.

6197-30-4

Revision Date

New Jersey Right to Know Components

2-Ethylhexyl-2-cyano-3,3-diphenylacrylate

CAS No.

6197-30-4

Revision Date

California Prop. 65 Components

This product does not contain any chemical known to the State of California to cause cancer, birth defects, or any other reproductive harm.

DSL Status

CAS No. 6197-30-4 is on the Canadian DSL list

WHMIS Classification

Not WHMIS controlled

WGK (Water Danger/Protection)

CAS No. 6197-30-4

WGK1

Regulation (EC) No. 1907/2006

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.



16. OTHER INFORMATION

In accordance with good practices of personal cleanliness and hygiene handle with due care and avoid unnecessary contact with this product.

This information is being supplied to you under OSHA "Right to Know / Right to Understand" Regulation 29 CFR 1910.1200 and is offered in good faith as typical values and not as a product specification. The information contained herein is based on the data available to us and is believed to be true and accurate.

No warranty, expressed or implied, regarding the accuracy of this data, the hazards connected with the use of the material, or the results obtained from the use thereof, is made. Lycus Ltd. assumes no responsibility for damage or injury from the use of the product described herein.

Lycus Ltd. certifies this product:

- Does not contain any ingredient of animal origin.
- Does not contain the beverage alcohol and beverage alcohol has not been used in the manufacturing process.

Text of H-code(s) and R-phrase(s) mentioned in Section 3

H413	May cause long lasting harmful effects to aquatic life
Aquatic Chronic	Acute hazards to the aquatic environment
R52/53	Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment

Further information

Copyright 2015 Lycus Ltd. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Lycus Ltd., shall not be held liable for any damage resulting from handling or from contact with the above product.

Data prepared:	July 5, 2004
Date of revision	September 5, 2012
Date of revision	December 1, 2013
Date of revision	December 7, 2015