



**Material Safety Data Sheet according to the Regulat.
 1907/2006/EC(Annex II)**

Revision Date: 11.2008

Date: 1. December 2008

1. Product details:

1.1 Recommended use:

UV Reducer U 0015
 Customs-tariff-no.: 3824 9098

1.2 Identification of the manufacturer / supplier

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Product safety:

2 Hazards identification

Hazard designation:

Xi  Irritant

Specific hazards to man and the environment:

36 Irritating to eyes.




3 Composition/information on ingredients

Chemical characterization

Description:

Preparation of acrylates, photoinitiators and additives.

Hazardous ingredients:

EINECS-No.	Name	Symb.	Conc.-%
CAS-No.	R-phrases		
	tripropylenglycol diacrylate	Xi  N 	0.1-0.3
	36/37/38-43-51/53		
	Oligotriacrylat	Xi 	25-100
	36		

Additional information: Meanings of R-phrases see under chapt.16.

4 First aid measures

General information: Remove contaminated clothing immediately and dispose of safely
After skin contact: Wash off immediately with soap and water.
After eye contact: In case of contact with the eyes rinse thoroughly with plenty of water or with an eye-cleaning solution.
 In case of irritation consult an oculist.
After ingestion: Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Summon a doctor immediately.



5 Fire fighting measures

Suitable extinguishing agents:

Foam, dry powder, carbon dioxide

For safety reasons unsuitable extinguishing agents:

Full water jet.

Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases

In the event of fire the following can be released:

Carbon monoxide (CO), Carbon dioxide (CO₂), In case of combustion evolution of dangerous gases possible.

Special protective equipment for firefighting

Do not inhale explosion and/or combustion gases.

Use self-contained breathing apparatus.

Other information

Cool endangered containers with water spray jet.

6 Accidental release measures

Person-related safety precautions:

Use personal protective clothing.

Environmental precautions:

Do not discharge into the drains/surface waters/groundwater.

Methods for cleaning up/taking up

Take up with absorbent material (eg sand, kieselguhr, universal binder). Dispose of absorbed material in accordance with the regulations.

7 Handling and storage

Handling

Advice on safe handling:

Use personal protective clothing.

Open and handle container with care.

Ensure adequate ventilation.

Avoid formation of aerosols.

Advice on protection against fire and explosion

No special measures necessary.

Storage

Requirements for storage rooms and vessels

Protect from frost.

Protect from heat and direct sunlight.

Keep container tightly closed and dry in a cool, well-ventilated place.



8 Exposure controls and personal protection

Additional hints on technical system design.:

See chapter 7; no measures exceeding the ones mentioned are necessary.

Ingredients with occupational exposure limits to be monitored

Personal protective equipment

Respiratory protection: Breathing apparatus in the event of aerosol or mist formation.

Hand protection:

Recommend: Impermeable safety gloves made of nitrile as per EN 374; penetration time more than 480 min. at a thickness of 0.4 mm.

Eye protection: Safety glasses with side protection shield

General protective measures: Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin. At work do not eat, drink, smoke or take drugs. Keep away from foodstuffs and beverages. Wash hands before breaks and after work.

9 Physical and chemical properties:

General Information

Form: liquid
Colour: yellowish
Smell: typical

		Value	Unit	Method
Flash point		> 100	°C	DIN 51755
Viscosity:	20 °C	20	sek./6 mm	DIN EN ISO 2431
Density:	20 °C	1.00	g/cm ³	
Lower explosion limit:		n.a.	Vol.%	
Upper explosion limit:		n.a.	Vol.%	
Solubility in water / method		insoluble		
Pourpoint:		n.a.	°C	
Boiling point:		>200	°C	
Bulk density:		n.a.	kg/m ³	
Vapour pressure:	20 °C	n.b.	mbar	
pH value:	20 °C	n.a.		

10 Stability and reactivity

Materials to avoid

Reactions with strong oxidising agents. Danger of a sudden polymerisation when warmed up or exposed to UV radiation.

Hazardous decomposition products

No hazardous reactions when stored and handled according to prescribed instructions.

11 Toxicological information

General remarks.

No toxicological data are available.

Experience in practice

Irritating to eyes.

12 Ecological information:

Do not discharge into the drains/surface waters/groundwater. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment.



13 Disposal considerations

Product:

Waste code

080313

sludges from paint or varnish containing organic solvents or other dangerous substances

The listed waste code numbers, according to the European Waste Catalogue (EWC), are to be understood as a recommendation. A final decision must be made in agreement with the regional waste disposal company.

Uncleaned packaging

Uncontaminated packaging may be taken for recycling.

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

14 Transport information

"Product is not subject to the regulations for dangerous goods".

15 Regulatory information

Labelling in accordance with EC directives

The product is classified and labelled in accordance with EC directives/GefStoff V

Xi  Irritant

Contains:

n.a.

R phrases:

36 Irritating to eyes.

S phrases:

25 Avoid contact with eyes.

Special provisions concerning the labelling of preparations:

99 Contains
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate.
May produce an allergic reaction.

National regulations

Water hazard class / source 2
(VwVwS)

VbF (Germany) : -

Restriction of occupation.

Observe employment restrictions for young people.

16 Other information:

36/37/38 Irritating to eyes, respiratory system and skin.
43 May cause sensitisation by skin contact.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
36 Irritating to eyes.

The data mentioned in the present safety data sheet correspond to our latest knowledge and experience and may be used to precise safety requirements for the different products. The information given therein is no warranty as to quality..

B.Grauel GmbH

n. a. : no applicable
n. b.: no determined

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