ARROWJET AQUAGUARD UV GLOSS VARNISH



Katun PN 56778 ARR JET AQUA 330R HYBRID INKJET PRN

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

1.1 Product identifier

Trade name ArrowJet Aquaguard UV Gloss Varnish

Material 825026-58

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

Use of the Sub-Printing inks, varnishes and printing ink related material for

stance/Mixture professional users.

1.3 Details of the supplier

Arrow System INC of the safety data sheet

2440 Jerauld Ave Niagara Falls NY 14305, USA +1 716-285-2974

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2 H315: Causes skin irritation.

Eye irritation, Category 2 H319: Causes serious eye irritation.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Specific target organ toxicity - single exposure, Category 3, Respiratory system H335: May cause respiratory irritation.

Long-term (chronic) aquatic hazard, Cat-

egory 2

H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms





Signal word : Warning

Hazard statements : H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : Prevention:

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

P264 Wash skin thoroughly after handling.P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh

air and keep comfortable for breathing. Call a POISON

CENTER/ doctor if you feel unwell.

P391 Collect spillage.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Mixtures

Chemical nature : Radiation curable printing ink

Components

Components			
Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Registration number		, ,
Tripropylene glycol diacrylate	42978-66-5	Skin Irrit. 2; H315	>= 30 - < 50
	256-032-2	Eye Irrit. 2; H319	
		Skin Sens. 1; H317	
	01-2119484613-34	STOT SE 3; H335	
		(Respiratory system)	
		Aquatic Chronic 2;	
		H411	

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11	1	1	1
		specific concentration limit STOT SE 3; H335 >= 10 %	
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	55818-57-0 500-130-2 01-2119490020-53	Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 30 - < 50
Ethoxylated trimethylolpropane triacrylate (TMPeoTA)	28961-43-5 500-066-5 01-2119489900-30	Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 3; H412	>= 10 - < 20
Polyfunctional amine	-	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 10 - < 20
4-Methylbenzophenone	134-84-9 205-159-1 01-2120749455-47	STOT RE 2; H373 (Liver, Kidney) Aquatic Chronic 3; H412	>= 2.5 - < 10
Propan-2-ol	67-63-0 200-661-7 01-2119457558-25	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system)	>= 1 - < 10
Trimethylolpropane triacrylate	15625-89-5 239-701-3 01-2119489896-11	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1	>= 0.25 - < 1

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Victim to lie down in the recovery position, cover and keep him

warm.

Never give anything by mouth to an unconscious person. When symptoms persist or in all cases of doubt seek medical

advice.

Show this safety data sheet to the doctor in attendance.

If inhaled : Move to fresh air.

Keep patient warm and at rest.

If breathing is irregular or stopped, administer artificial respira-

tion.

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In case of skin contact : Take off all contaminated clothing immediately.

Wash skin thoroughly with soap and water or use recognized

skin cleanser.

Do NOT use solvents or thinners.

In case of eye contact : Remove contact lenses.

Irrigate copiously with clean, fresh water for at least 10

minutes, holding the eyelids apart.

Seek medical advice.

If swallowed : If accidentally swallowed obtain immediate medical attention.

Keep at rest.

Rinse mouth with water. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

Risks : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or car-

bon dioxide.

Unsuitable extinguishing

media

: High volume water jet

5.2 Special hazards arising from the substance or mixture

5.3 Advice for firefighters

Special protective equipment :

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary. Use personal protective equipment.

Further information : Use water spray to cool unopened containers.

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

Ventilate the area.

Evacuate personnel to safe areas.

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6.2 Environmental precautions

Environmental precautions : Do not let product enter drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible ab-

sorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local

/ national regulations (see section 13). Clean with detergents. Avoid solvents.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid exceeding the given occupational exposure limits (see

section 8).

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Avoid contact with skin, eyes and clothing.

Avoid inhalation of vapour or mist.

Advice on protection against

fire and explosion

Normal measures for preventive fire protection. Take measures to prevent the build up of electrostatic charge.

Hygiene measures : Store personal protection equipment in a clean location away

from the work area. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of work-

day. Keep away from food and drink.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep containers tightly closed in a dry, cool and well-ventilated place. Observe label precau-

tions. No smoking. Prevent unauthorized access.

Advice on common storage : Keep away from oxidizing agents, strongly alkaline and strong-

ly acid materials in order to avoid exothermic reactions.

7.3 Specific end use(s)

Specific use(s) : Consult the technical guidelines for the use of this sub-

stance/mixture.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Propan-2-ol	67-63-0	TWA	400 ppm 999 mg/m3	GB EH40
		STEL	500 ppm 1,250 mg/m3	GB EH40

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value		
4,4'- Isopropylidenediphe- nol, oligomeric reac- tion products with 1- chloro-2,3- epoxypropane, esters with acrylic acid	Workers	Inhalation	Long-term systemic effects	1.17 mg/m3		
Remarks:	ECHA REACH-	ECHA REACH-dossier information				
	Workers	Skin contact	Long-term systemic effects	33 mg/kg bw/day		
Remarks:	ECHA REACH-	dossier information	1			
Tripropylene glycol diacrylate	Workers	Inhalation	Long-term systemic effects	2.35 mg/m3		
Remarks:	ECHA REACH-	dossier information	1	•		
	Workers	Skin contact	Long-term systemic effects	1.7 mg/kg bw/day		
Remarks:	ECHA REACH-	dossier information	1			
Ethoxylated trime- thylolpropane triacry- late (TMPeoTA)	Workers	Inhalation	Long-term systemic effects	16.2 mg/m3		
Remarks:	ECHA REACH-	ECHA REACH-dossier information				
	Workers	Skin contact	Long-term systemic effects	0.8 mg/kg bw/day		
Remarks:	ECHA REACH-	dossier information		•		
Trimethylolpropane triacrylate	Workers	Inhalation	Long-term systemic effects	3.5 mg/m3		
Remarks:	ECHA REACH-	dossier information				
	Workers	Skin contact	Long-term systemic effects	83 mg/kg bw/day		
Remarks:	ECHA REACH-dossier information					
	Consumers	Inhalation	Long-term systemic effects	0.87 mg/m3		
Remarks:	ECHA REACH-dossier information					
	Consumers	Skin contact	Long-term systemic effects	42 mg/kg bw/day		
Remarks:	ECHA REACH-dossier information					
	Consumers	Ingestion	Long-term systemic effects	0.5 mg/kg bw/day		
Remarks:	ECHA REACH-dossier information					
4-	Workers	Inhalation	Long-term systemic	0.7 mg/m3		

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Methylbenzophenone	I		effects	I	
Remarks:	ECHA REACH-dossier information				
	Workers	Skin contact	Long-term systemic effects	0.1 mg/kg bw/day	
Remarks:	ECHA REACH-0	dossier information			
	Consumers	Inhalation	Long-term systemic effects	0.17 mg/m3	
Remarks:	ECHA REACH-dossier information				
	Consumers	Skin contact	Long-term systemic effects	0.05 mg/kg bw/day	
Remarks:	ECHA REACH-dossier information				
	Consumers	Ingestion	Long-term systemic effects	0.05 mg/kg bw/day	
Remarks:	ECHA REACH-dossier information				
Propan-2-ol	Workers	Inhalation	Long-term systemic effects	500 mg/m3	
Remarks:	ECHA REACH-dossier information				
	Workers	Skin contact	Long-term systemic effects	888 mg/kg bw/day	
Remarks:	ECHA REACH-dossier information				

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name		Environmental Compartment	Value
Tripropylene glycol diacrylate		Fresh water	0.005 mg/l
Remarks:	ECHA RE	ACH-dossier information	•
		Intermittent use/release	0.046 mg/l
	ECHA RE	ACH-dossier information	
		Sewage treatment plant	10 mg/l
	ECHA RE	ACH-dossier information	
		Fresh water sediment	0.487 mg/kg dry
			weight (d.w.)
	ECHA RE	ACH-dossier information	
		Marine sediment	0.049 mg/kg dry
			weight (d.w.)
	ECHA RE	ACH-dossier information	
		Soil	0.095 mg/kg dry
			weight (d.w.)
		ACH-dossier information	
4-Methylbenzophenone		Fresh water	0.02 mg/l
Remarks:	ECHA RE	ACH-dossier information	
		Marine water	0.002 mg/l
	ECHA RE	ACH-dossier information	
		Intermittent use/release	0.035 mg/l
	ECHA RE	ACH-dossier information	
		Sewage treatment plant	3.16 mg/l
	ECHA RE	ACH-dossier information	
		Fresh water sediment	1.1 mg/kg dry
			weight (d.w.)
ECHA RE		ACH-dossier information	
		Marine sediment	0.11 mg/kg dry
			weight (d.w.)
	ECHA RE	ACH-dossier information	
		Soil	0.31 mg/kg dry
			weight (d.w.)
		ACH-dossier information	
Trimethylolpropane triad	crylate	Fresh water	0.00087 mg/l

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Remarks:	ECHA REACH-dossier information	
	Marine water	0.000087 mg/l
	ECHA REACH-dossier information	·
	Sewage treatment plant	6.25 mg/l
	ECHA REACH-dossier information	
	Fresh water sediment	0.017 mg/kg dry
		weight (d.w.)
	ECHA REACH-dossier information	
	Marine sediment	0.002 mg/kg dry
		weight (d.w.)
	ECHA REACH-dossier information	

8.2 Exposure controls

Engineering measures

Maintain air concentrations below occupational exposure standards.

Personal protective equipment

Eye protection : Chemical resistant safety glasses must be worn.

Hand protection

Material : Nitrile rubber
Break through time : > 10 min
Glove thickness : > 0.12 mm

Material : Nitrile rubber
Break through time : > 240 min
Glove thickness : > 0.45 mm

Remarks : The selected protective gloves have to satisfy the specifica-

tions of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. As the product is a mixture of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use. The breakthrough time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Barrier creams may help to protect the exposed areas of skin, they should however not be applied once exposure has occurred. Gloves should be discarded and replaced if there is any indication of

degradation or chemical breakthrough.

Skin and body protection : Working clothes must not consist of textiles, which show a

dangerous melting behaviour in case of fire.

Skin should be washed after contact.

Protective measures : Personal protective equipment comprising: suitable protective

gloves, safety goggles and protective clothing

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : colourless

Odour : characteristic

Odour Threshold : not determined

Melting point/range : Not applicable

Boiling point : > 38 °C

Upper explosion limit / Upper

flammability limit

not determined

Lower explosion limit / Lower

flammability limit

not determined

Flash point : does not flash

Auto-ignition temperature : not determined

Decomposition temperature

Decomposition tempera-

ture

The substance or mixture is not classified self-reactive.

pH : not determined

Viscosity

Viscosity, kinematic : > 21 mm2/s (40 °C)

Partition coefficient: n-

octanol/water

No data available

Vapour pressure : < 1,100 hPa (50 °C)

Density : ca. 1.1 g/cm3 (20 °C)

Relative vapour density : not determined

9.2 Other information

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Self-ignition : No data available

Evaporation rate : not determined

Miscibility with water : immiscible

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SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : None known.

10.4 Conditions to avoid

Conditions to avoid : Protect from frost, heat and sunlight.

10.5 Incompatible materials

Materials to avoid : Keep away from oxidizing agents, strongly alkaline and

strongly acid materials in order to avoid exothermic reactions.

10.6 Hazardous decomposition products

Stable under recommended storage conditions.

SECTION 11: Toxicological information

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the Regulation (EC) No. 1272/2008 and classified for toxicological hazards accordingly. See Sections 2 and 3 for details.

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product:

Acute oral toxicity : Remarks: This information is not available.

Acute dermal toxicity : Remarks: This information is not available.

Skin corrosion/irritation

Product:

Remarks : This information is not available.

Components:

Tripropylene glycol diacrylate:

Result : Skin irritation

Trimethylolpropane triacrylate:

Species : Rabbit

Method : OECD Test Guideline 404

Result : Skin irritation

Remarks : ECHA REACH-dossier information

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Serious eye damage/eye irritation

Product:

Remarks : This information is not available.

Components:

Tripropylene glycol diacrylate:

Result : Eye irritation

Ethoxylated trimethylolpropane triacrylate (TMPeoTA):

Method : OECD Test Guideline 405

Result : Eye irritation

Trimethylolpropane triacrylate:

Species : Rabbit
Method : Draize Test
Result : Eye irritation

Remarks : ECHA REACH-dossier information

Respiratory or skin sensitisation

Product:

Remarks : This information is not available.

Components:

Tripropylene glycol diacrylate:

Species : Mouse

Method : OECD Test Guideline 429
Result : Causes sensitisation.

Remarks : ECHA REACH-dossier information

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid:

Species : Mouse

bpecies . Wouse

Method : OECD Test Guideline 429

Result : May cause sensitisation by skin contact.

GLP : yes

Ethoxylated trimethylolpropane triacrylate (TMPeoTA):

Test Type : Buehler Test Exposure routes : Dermal Species : Guinea pig

Result : May cause sensitisation by skin contact.

Trimethylolpropane triacrylate:

Species : Guinea pig

Result : Causes sensitisation.

Remarks : ECHA REACH-dossier information

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Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: Not classified due to lack of data.

Carcinogenicity

Product:

Carcinogenicity - Assess-

ment

: No data available

Reproductive toxicity

Product:

Reproductive toxicity - As-

sessment

Fertility classification not possible from current data.

STOT - single exposure

Product:

Remarks : No data available

STOT - repeated exposure

Product:

Remarks : No data available

Aspiration toxicity

Product:

No aspiration toxicity classification

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

SECTION 12: Ecological information

Unless otherwise indicated, no data is available on the mixture itself. The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and classified for ecotoxicological hazards accordingly.

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12.1 Toxicity

Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other :

aquatic invertebrates

Remarks: No data available

Toxicity to algae/aquatic

plants

Remarks: No data available

Toxicity to microorganisms

Remarks: No data available

Components:

Tripropylene glycol diacrylate:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 4.6 - < 10 mg/l

Exposure time: 96 h Method: DIN 38412

Remarks: ECHA REACH-dossier information

Toxicity to daphnia and other

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 89 mg/l

Exposure time: 48 h

Method: Regulation (EC) No. 440/2008, Annex, C.2 Remarks: ECHA REACH-dossier information

Toxicity to algae/aquatic

plants

EC50 (Desmodesmus subspicatus (Scenedesmus subspi-

catus)): 66 mg/l Exposure time: 72 h Method: DIN 38412-33

Remarks: ECHA REACH-dossier information

4-Methylbenzophenone:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 14.75 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Remarks: ECHA REACH-dossier information

Trimethylolpropane triacrylate:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 0.87 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Remarks: ECHA REACH-dossier information

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 19.9 mg/l

Exposure time: 48 h

Method: Regulation (EC) No. 440/2008, Annex, C.2 Remarks: ECHA REACH-dossier information

Toxicity to algae/aquatic

plants

EC50 (Desmodesmus subspicatus (Scenedesmus subspi-

catus)): 4.86 mg/l Exposure time: 96 h

Method: Regulation (EC) No. 440/2008, Annex, C.3 Remarks: ECHA REACH-dossier information

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M-Factor (Acute aquatic tox- :

icity)

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

Components:

Tripropylene glycol diacrylate:

Biodegradability : Result: Partially biodegradable.

Biodegradation: 48 % Exposure time: 28 d

Method: OECD Test Guideline 301B

Remarks: The value is given based on a SAR/AAR approach

using OECD Toolbox, DEREK, VEGA QSAR models

(CAESAR models), etc.

ECHA REACH-dossier information

4-Methylbenzophenone:

Biodegradability : Result: Not readily biodegradable.

Remarks: The value is given based on a SAR/AAR approach

using OECD Toolbox, DEREK, VEGA QSAR models

(CAESAR models), etc.

ECHA REACH-dossier information

Trimethylolpropane triacrylate:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 82 % Exposure time: 28 d

Method: OECD Test Guideline 301B

Remarks: ECHA REACH-dossier information

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Does not bioaccumulate.

12.4 Mobility in soil

Product:

Mobility : Remarks: Use of this chemical in areas where soils are per-

meable, particularly where the water table is shallow, may

result in ground-water contamination.

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

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0.1% or higher...

Components:

Tripropylene glycol diacrylate:

Assessment : This substance is not considered to be persistent, bioaccumu-

lating and toxic (PBT).. This substance is not considered to be

very persistent and very bioaccumulating (vPvB).. Remarks: ECHA REACH-dossier information

Trimethylolpropane triacrylate:

Assessment : This substance is not considered to be persistent, bioaccumu-

lating and toxic (PBT).. This substance is not considered to be

very persistent and very bioaccumulating (vPvB)..

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological infor-

mation

: We have no quantitative data concerning the ecological ef-

fects of this product.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water

courses or the soil.

Dispose of in accordance with local regulations.

Contaminated packaging : Packaging that is not properly emptied must be disposed of as

the unused product.

Empty containers can be landfilled after cleaning, when in

compliance with local regulations.

Waste Code : 08 03 12, waste ink containing hazardous substances

SECTION 14: Transport information

14.1 UN number or ID number

 ADN
 : UN 3082

 ADR
 : UN 3082

 IMDG
 : UN 3082

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IATA : UN 3082

14.2 UN proper shipping name

ADN : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Tripropylene glycol diacrylate (acrylic acid ester), Bisphenol A

epoxy diacrylate)

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Tripropylene glycol diacrylate (acrylic acid ester), Bisphenol A

epoxy diacrylate)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Tripropylene glycol diacrylate (acrylic acid ester), Bisphenol A

epoxy diacrylate)

IATA : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Tripropylene glycol diacrylate (acrylic acid ester), Bisphenol A

epoxy diacrylate)

14.3 Transport hazard class(es)

ADN : 9
ADR : 9
IMDG : 9
IATA : 9

14.4 Packing group

ADN

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9

ADR

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : (-)

IMDG

Packing group : III Labels : 9

EmS Code : F-A, S-F

IATA (Cargo)

Packing instruction (cargo : 964

aircraft)

Packing instruction (LQ) : Y964 Packing group : III

Labels : Miscellaneous Dangerous Goods

IATA_P (Passenger)

Packing instruction (passen: 964

ger aircraft)

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Packing instruction (LQ) Y964 Packing group Ш

Labels Miscellaneous Dangerous Goods

14.5 Environmental hazards

ADN

Environmentally hazardous yes

ADR

Environmentally hazardous yes

IMDG

Marine pollutant yes

IATA (Passenger)

Environmentally hazardous yes

IATA (Cargo)

Environmentally hazardous yes

14.6 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.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

Conditions of restriction for the following entries should be considered: Number on list 3

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals

Not applicable

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

Not applicable

REACH - List of substances subject to authorisation

(Annex XIV)

Not applicable

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast)

Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

E2 **ENVIRONMENTAL HAZARDS**

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Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial

emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 1.13 %

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

SECTION 16: Other information

Full text of H-Statements

H225 : Highly flammable liquid and vapour.

H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction.
H319 : Causes serious eye irritation.
H335 : May cause respiratory irritation.
H336 : May cause drowsiness or dizziness.

H373 : May cause damage to organs through prolonged or repeated

exposure.

H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long lasting effects.
 H411 : Toxic to aquatic life with long lasting effects.
 H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Aquatic Acute : Short-term (acute) aquatic hazard Aquatic Chronic : Long-term (chronic) aquatic hazard

Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

STOT RE : Specific target organ toxicity - repeated exposure STOT SE : Specific target organ toxicity - single exposure GB EH40 : UK. EH40 WEL - Workplace Exposure Limits

GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

Further information

Classification of the mixture: Classification procedure:

Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
STOT SE 3	H335	Calculation method
Aquatic Chronic 2	H411	Calculation method

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 guid-

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