

# **Delta D88 High Temperature Retaining Adhesive**

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

### 1.1. Product identifier

D88 High Temperature Retaining Adhesive

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

### Use of the substance/mixture

Adhesives, sealants

#### Uses advised against

Any non-intended use.

#### 1.3. Details of the supplier of the safety data sheet

Company name: Delta Adhesives Limited

Place: Units 39-40 Claycliffe Business Park, Barnsley, S75 1JU, United Kingdom

Telephone: +44 (0)1226 381571

Internet: <a href="www.delta-adhesives.co.uk">www.delta-adhesives.co.uk</a>
Responsible Department: sales@delta-adhesives.co.uk

**1.4. Emergency telephone** +44 (0)1226 381571 (Mo-Fr, 08:00-16:00)

number:

#### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

Indications of danger: C - Corrosive

R phrases: Causes burns.

May cause sensitisation by skin contact.

# **GHS** classification

Hazard categories:

Skin corrosion/irritation: Skin Corr. 1A Serious eye damage/eye irritation: Eye Dam. 1

Respiratory/skin sensitization: Skin Sens. 1

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Causes severe skin burns and eye damage.

May cause an allergic skin reaction. May cause respiratory irritation.

# 2.2. Label elements

#### Hazardous components which must be listed on the label

methacrylic acid, monoester with propane-1,2-diol

acrylic acid, prop-2-enoic acid Aliphatic urethane acrylate

Signal word: Danger

Pictograms: GHS05-GHS07





#### **Hazard statements**

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

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SAFETY DATA SHEET EDITION: 08/09/2021

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H335 May cause respiratory irritation.

### **Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P501 Dispose of contents/container to in accordance with official regulations.

#### 2.3. Other hazards

No information available.

# **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures

### **Hazardous components**

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
248-666-3	methacrylic acid, monoester with propane-1,2-diol	45 - < 50 %
27813-02-1	Xi - Irritant R36-43	
	Eye Irrit. 2, Skin Sens. 1; H319 H317	
201-177-9	acrylic acid, prop-2-enoic acid	5 - < 10 %
79-10-7	C - Corrosive, Xn - Harmful, N - Dangerous for the environment R10-20/21/22-35-50	
607-061-00-8	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A, Aquatic Acute 1; H226 H332 H312 H302 H314 H400	
	Aliphatic urethane acrylate	5 - < 10 %
-	Xi - Irritant R38-43	
	Skin Irrit. 2, Skin Sens. 1; H315 H317	
201-254-7	cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide	<1 %
80-15-9	O - Oxidizing, T - Toxic, C - Corrosive, Xn - Harmful, N - Dangerous for the environment R7-23-21/22-48/20/22-34-51-53	
617-002-00-8	Org. Perox. E, Acute Tox. 3, Acute Tox. 4, Acute Tox. 4, STOT RE 2, Skin Corr. 1B, Aquatic Chronic 2; H242 H331 H312 H302 H373 ** H314 H411	
204-055-3	2'-Phenylacetohydrazide	<1 %
114-83-0	T - Toxic, Xi - Irritant R25-36/37/38-43	
	Acute Tox. 3, Eye Irrit. 2, STOT SE 3, Skin Irrit. 2, Skin Sens. 1; H301 H319 H335 H315 H317	

Full text of R and H phrases: see Section 16.

#### **Further Information**

Product does not contain listed SVHC substances.

#### **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

## **General information**

In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).



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#### After inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

#### After contact with skin

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Immediately get medical attention.

#### After contact with eves

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

#### After inaestion

Do not induce vomiting. Rinse mouth thoroughly with water. Let water be swallowed in little sips (dilution effect). Never give anything by mouth to an unconscious person or a person with cramps. Immediately get medical attention.

# 4.2. Most important symptoms and effects, both acute and delayed

No information available.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

#### Suitable extinguishing media

Dry extinguishing powder. Foam. Water spray. Carbon dioxide (CO2).

### Unsuitable extinguishing media

High power water jet.

### 5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx).

#### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical resistant suit. In case of fire and/or explosion do not breathe fumes.

#### **Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray/stream to protect personnel and to cool endangered containers.

### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation.

Do not breathe gas/vapour/spray. Avoid contact with skin, eye and clothing.

Wear personal protection equipment. (refer to chapter 8)

# 6.2. Environmental precautions

Do not empty into drains or the aquatic environment. Prevent spreading over great surfaces (e.g. by damming or installing oil booms). In case of leakage into waters, ground or the drainage system, the appropriate authorities must be informed.

#### 6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Ventilate affected area.

Treat the assimilated material according to the section on waste disposal.

Clear contaminated area thoroughly.

# 6.4. Reference to other sections

See protective measures under point 7 and 8.



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### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

#### Advice on safe handling

Provide adequate ventilation.

Wear suitable protective clothing. (Refer to chapter 8.)

## Advice on protection against fire and explosion

Usual measures for fire prevention.

### Further information on handling

Do not breathe gas/vapour/spray. Avoid contact with skin, eye and clothing.

General protection and hygiene measures: refer to chapter 8

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

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

### Advice on storage compatibility

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Organic peroxides. Self-reactive substances and mixtures. Radioactive substances. Infectious substances.

#### Further information on storage conditions

Protect against: Light. UV-radiation/sunlight. heat. cooling. moisture.

#### 7.3. Specific end use(s)

No information available.

# **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

#### 8.2. Exposure controls





# **Appropriate engineering controls**

In case of open handling, use devices with built-in suction where possible. If suction of the immediate vicinity is impossible or insufficient, adequate airing of the working place must be ensured. When workers are facing concentrations above the exposure limit they must use appropriate certified

respirators.

#### Protective and hygiene measures

Always close containers tightly after the removal of product. Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and at the end of work. Remove contaminated clothing immediatley and dispose off safely. Wash contaminated clothing prior to re-use. Used working clothes should not be used outside the work area. Street clothing should be stored seperately from work clothing. Protect skin by using skin protective cream.

### Eye/face protection

Suitable eye protection: Tightly sealed safety glasses. DIN EN 166

#### Hand protection

Pull-over gloves of rubber. DIN EN 374

Suitable material:

(Breakthrough time >= 480 min, penetration time (maximum wearing period): 160 min)

Butyl rubber. (0,5 mm)

Before using check leak tightness / impermeability. In case of reutilization, clean gloves before taking



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off and store in well-aired place.

In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

#### Skin protection

Suitable protection of the body: Protective clothing:

# **Respiratory protection**

Respiratory protection required in case of:

insufficient ventilation.

Generation/formation of aerosols

Generation/formation of mist

exceeding critical value

Suitable respiratory protective equipment: Combination filter device (DIN EN 141).. Type: A / P2/P3

The filter class must be suitable for the maximum contaminant concentration

(gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is

exceeded, closed-circuit breathing apparatus must be used!

#### **Environmental exposure controls**

Do not empty into drains or the aquatic environment.

# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state: liquid Colour: Green

Odour: characteristic

Test method

pH-Value: not determined

Changes in the physical state

Melting point: not determined
Initial boiling point and boiling range: not determined
Flash point: not determined

**Explosive properties** 

none/none

Lower explosion limits:

Upper explosion limits:

not determined

not determined

**Oxidizing properties** 

none/none

Vapour pressure: not determined
Density: not determined
Viscosity / dynamic: not determined

# 9.2. Other information

No information available.

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

Stable under normal storage and handling conditions.



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#### 10.3. Possibility of hazardous reactions

No information available.

### 10.4. Conditions to avoid

Protect against: Light. UV-radiation/sunlight. heat. cooling. moisture.

#### 10.5. Incompatible materials

Materials to avoid: Strong acid. Oxidizing agents, strong. Alkalis (alkalis), concentrated.

### 10.6. Hazardous decomposition products

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx).

# **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

#### Toxicocinetics, metabolism and distribution

No information available.

### **Acute toxicity**

Based on available data, the classification criteria are not met.

#### **Acute toxicity**

CAS No	Chemical name						
	Exposure routes	Method	Dose	Species	Source		
27813-02-1	methacrylic acid, monoester with propane-1,2-diol						
	oral	LD50	>2000 mg/kg	Rat.	ECHA Dossier		
	dermal	LD50	>5000 mg/kg	Rabbit.	ECHA Dossier		
79-10-7	acrylic acid, prop-2-enoic acid						
	oral	ATE	500 mg/kg				
	dermal	LD50	> 294 mg/kg	Rabbit.	RTECS		
	inhalative (4 h) vapour	LC50	>5,1 mg/l	Rat.	ECHA Dossier		
	inhalative aerosol	ATE	1,5 mg/l				
80-15-9	cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide						
	oral	LD50	382 mg/kg	Rat.	IUCLID		
	dermal	LD50	500 mg/kg	Rat.	RTECS		
	inhalative (4 h) vapour	LC50	(200) mg/l	Mouse.	IUCLID		
	inhalative aerosol	ATE	0,5 mg/l				
114-83-0	2'-Phenylacetohydrazide						
	oral	LD50	270 mg/kg	Mouse.			

### Irritation and corrosivity

Causes severe skin burns and eye damage.

### Sensitising effects

May cause an allergic skin reaction. (methacrylic acid, monoester with propane-1,2-diol), (Aliphatic urethane acrylate), (2'-Phenylacetohydrazide)

Respiratory or skin sensitisation:

People who suffer from skins problems, asthma, allergies, chronic or recurring respiratory illnesses must not be deployed in processes, which use this substance.

## STOT-single exposure

May cause respiratory irritation. (2'-Phenylacetohydrazide)

### Severe effects after repeated or prolonged exposure



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Based on available data, the classification criteria are not met.

methacrylic acid, monoester with propane-1,2-diol:

Subchronic oral toxicity (90d, Rat.) NOAEL = 300 mg/kg(bw)/day; literature infomation: ECHA Dossier

acrylic acid, prop-2-enoic acid:

Subchronic oral toxicity (90d, Rat.) NOAEL = 40 mg/kg; literature infomation: ECHA Dossier Subchronic inhalative toxicity (90d, Rat.)) LOAEC = 0,015 mg/l; literature infomation: ECHA Dossier

cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide:

Subchronic inhalative toxicity (Rat.) NOAEC = 31 mg/m3; literature infomation: ECHA Dossier

# Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

methacrylic acid, monoester with propane-1,2-diol:

In-vitro mutagenicity: in vitro mammalian chromosome aberration test = positive. literature infomation:

Mutation Research 517 (1-2): 187-198

OECD Guideline 471 (Bacterial Reverse Mutation Assay) = negative. literature infomation: ECHA Dossier OECD Guideline 472 (Genetic Toxicology: Escherichia coli, Reverse Mutation Assay) = negative. literature infomation: ECHA Dossier

OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) = negative. literature infomation: ECHA

Dossier

In-vivo mutagenicity: OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) = negative.

literature infomation: ECHA Dossier

Carcinogenicity: Rat.) NOAEC = >2,05 mg/l; literature infomation: ECHA Dossier

Developmental toxicity/teratogenicity (Rat.) NOAEL = 50 mg/kg(bw)/day; literature infomation: ECHA

Dossier

acrylic acid, prop-2-enoic acid:

In-vitro mutagenicity: OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) = negative.

literature infomation: ECHA Dossier

In-vivo mutagenicity: No experimental indications of mutagenicity in-vivo exist. literature infomation: ECHA

Dossier

Carcinogenicity: (Mouse.) NOAEL = >10 mg/kg(bw)/day; literature infomation: ECHA Dossier

Developmental toxicity/teratogenicity (Rat.) NOAEC = 0,075 mg/l; literature infomation: ECHA Dossier

cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide:

In-vitro mutagenicity: OECD Guideline 471 (Bacterial Reverse Mutation Assay) = positive. literature

infomation: ECHA Dossier

No experimental indications of mutagenicity in-vivo exist. literature infomation: ECHA Dossier

#### **Aspiration hazard**

Based on available data, the classification criteria are not met.

#### Specific effects in experiment on an animal

No information available.

### **SECTION 12: Ecological information**

### 12.1. Toxicity

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CAS No	Chemical name						
	Aquatic toxicity	Method	Dose	[h]   [d]	Species	Source	
27813-02-1	methacrylic acid, monoester with propane-1,2-diol						
	Acute fish toxicity	LC50	833 mg/l	96 h	Scophthalmus maximus		
	Acute crustacea toxicity	EC50	>143 mg/l	48 h	Daphnia magna	ECHA Dossier	
79-10-7	0-7 acrylic acid, prop-2-enoic acid						
	Acute fish toxicity	LC50	27 mg/l	96 h	Onchorhynchus mykiss	ECHA Dossier	
	Acute algae toxicity	ErC50	0,13 mg/l	72 h	Desmodesmus subspicatus	MSDS extern	
	Acute crustacea toxicity	EC50	95 mg/l	48 h	Daphnia magna	ECHA Dossier	
80-15-9	cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide						
	Acute fish toxicity	LC50	3,9 mg/l	96 h	Oncorhynchus mykiss	ECHA Dossier	
	Acute algae toxicity	ErC50	3,1 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier	
	Acute crustacea toxicity	EC50	18,84 mg/l	48 h	Daphnia magna	ECHA Dossier	

### 12.2. Persistence and degradability

CAS No	Chemical name						
	Method	Value	d	Source			
	Evaluation			•			
27813-02-1	methacrylic acid, monoester with propane-1,2-diol						
	OECD 301C / ISO 9408 / EWG 92/69 Anhang V, C.4-F	>81%	28	ECHA Dossier			
	Easily biodegradable (concerning to the criteria of the OECD)						
80-15-9	cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide						
	OECD 301B / ISO 9439 / EWG 92/69 Anhang V, C.4-C	3%	28	ECHA Dossier			
	Not easily bio-degradable (according to OECD-criteria).						

# 12.3. Bioaccumulative potential

### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
27813-02-1	methacrylic acid, monoester with propane-1,2-diol	0,97
79-10-7	acrylic acid, prop-2-enoic acid	0,35
80-15-9	cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide	2,16

# 12.4. Mobility in soil

No data available

## 12.5. Results of PBT and vPvB assessment

No data available

# 12.6. Other adverse effects

No data available

### **Further information**

Do not empty into drains or the aquatic environment.

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

## Advice on disposal

Waste disposal according to official state regulations. Consult the local waste disposal expert about waste disposal. Cleaned containers may be recycled.



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#### Waste disposal number of waste from residues/unused products

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS

(PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants (and appropriate the product of the produc

sealants containing organic solvents or other dangerous substances

Classified as hazardous waste.

# Waste disposal number of used product

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS;

wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and

sealants containing organic solvents or other dangerous substances

Classified as hazardous waste.

### Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances

Classified as hazardous waste.

#### Contaminated packaging

Handle contaminated packaging in the same way as the substance itself.

# **SECTION 14: Transport information**

### Land transport (ADR/RID)

**14.1. UN number**: UN 1760

14.2. UN proper shipping name: CORROSIVE LIQUID, N.O.S.

(acrylic acid, prop-2-enoic acid; cumene hydroperoxide,

alpha, alpha-dimethylbenzyl hydroperoxide)

14.3. Transport hazard class(es): 8

14.4. Packing group:

Hazard label: 8



Classification code: C9
Special Provisions: 274
Limited quantity: 1 L
Transport category: 2
Hazard No: 80
Tunnel restriction code: E

### Other applicable information (land transport)

Excepted quantity: E2

### Inland waterways transport (ADN)

**14.1. UN number:** UN 1760

14.2. UN proper shipping name: CORROSIVE LIQUID, N.O.S.

(acrylic acid, prop-2-enoic acid; cumene hydroperoxide,

alpha, alpha-dimethylbenzyl hydroperoxide)

14.3. Transport hazard class(es): 8

14.4. Packing group:

Hazard label: 8



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Classification code: C9
Special Provisions: 274
Limited quantity: 1 L

# Other applicable information (inland waterways transport)

Excepted quantity: E2

### Marine transport (IMDG)

**14.1. UN number:** UN 1760

**14.2. UN proper shipping name:** CORROSIVE LIQUID, N.O.S.

(Acrylic acid; Cumene hydroperoxide)

14.3. Transport hazard class(es):814.4. Packing group:IIHazard label:8



Marine pollutant:

Special Provisions:

Limited quantity:

EmS:

NO

274

1 L

F-A. S-B

#### Other applicable information (marine transport)

Excepted quantity: E2

### Air transport (ICAO)

**14.1. UN number:** UN 1760

**14.2. UN proper shipping name:** CORROSIVE LIQUID, N.O.S.

(Acrylic acid; Cumene hydroperoxide)

14.3. Transport hazard class(es):814.4. Packing group:IIHazard label:8



Special Provisions: A3 A803 Limited quantity Passenger: 0.5 L

IATA-packing instructions - Passenger:

IATA-max. quantity - Passenger:

IATA-packing instructions - Cargo:

IATA-max. quantity - Cargo:

30 L

### Other applicable information (air transport)

Passenger-LQ: Y840 Excepted quantity: E2

# 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

### 14.6. Special precautions for user

refer to chapter 6-8



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#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

irrelevant

### **SECTION 15: Regulatory information**

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

#### **EU** regulatory information

1999/13/EC (VOC): No information available. VOC Directive 2004/42/EC: No information available.

#### Additional information

The preparation is dangerous in the sense of Directive 1999/45/EC.

This preparation is hazardous in the sense of regulation (EC) No 1272/2008 [GHS].

Not subject to regulation 96/82/EC. REACH 1907/2006 Appendix XVII, No 3

#### **National regulatory information**

Employment restrictions: Observe employment restrictions for young people.

Water contaminating class (D): 2 - water contaminating

#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

#### **SECTION 16: Other information**

#### Changes

Rev. 1,00, 16.12.2014, Initial release

### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the

International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations

Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level

# Full text of R phrases referred to under Sections 2 and 3

May cause fire.Flammable.

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

21/22 Harmful in contact with skin and if swallowed.

Toxic by inhalation.
Toxic if swallowed.
Causes burns.
Causes severe burns.
Irritating to eyes.



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36/37/38 Irritating to eyes, respiratory system and skin.

38 Irritating to skin.

43 May cause sensitisation by skin contact.

48/20/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation and if

swallowed.

50 Very toxic to aquatic organisms. 51 Toxic to aquatic organisms.

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

### Full text of H statements referred to under Sections 2 and 3

H226	Flammable liquid and vapour.
H242	Heating may cause a fire.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

### **Further Information**

H411

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)





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