

1 Identification

· **Product identifier**

- *Product number* TL56242
- *Trade name:* **UV R/C CLEAR TOPCOAT 50 SHEEN**
 - *Application of the substance / the mixture* For professional use

· **Details of the supplier of the safety data sheet**

- *Manufacturer/Supplier:*
IVM Chemicals srl
Viale della Stazione 3 -27020 Parona (PV) Italy tel +39 038425441

1.3.2 Importer

Name I.C. & S. DISTRIBUTING CO.
Address P.O. BOX 10845
LANCASTER. PA
USA
E-Mail: nelson@ics-company.com

· *Information department:*

Environmental Health and safety office
hseoffice@ivmchemicals.com

· *Emergency telephone number:*

ChemTel Expert Assistance Hotline/MSDS Fax Access by dialing 1-800-255-3924 or for International +1-813-248-0585.

2 Hazard(s) identification

· **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapor.



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS09 Environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Acute 2 H401 Toxic to aquatic life.

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· Label elements
· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms


GHS02 GHS05 GHS07 GHS08 GHS09

· Signal word Danger
· Hazard-determining components of labeling:

 oxybis(methyl-2,1-ethanediyl) diacrylate
 benzophenone

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

hexamethylene diacrylate

 Reaction product of 2-{2-[2-(acryloyloxy)-1-methylethoxy]-1-methylethoxy}-1-methylethyl
 acrylate and N-ethylethanamine

phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

· Hazard statements

H226 Flammable liquid and vapor.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

H401 Toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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.

P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Classification system:
· NFPA ratings (scale 0 - 4)


Health = 3

Fire = 2

Reactivity = 0

· HMIS-ratings (scale 0 - 4)


Health = *3

Fire = 2

Reactivity = 0

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3 Composition/information on ingredients

- Chemical characterization: Mixtures**

- Description: Mixture: consisting of the following components.*

- Dangerous components:*

57472-68-1	oxybis(methyl-2,1-ethanediyl) diacrylate Eye Dam. 1, H318 Skin Irrit. 2, H315; Skin Sens. 1, H317	20-24.99%
55818-57-0	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid Skin Sens. 1, H317	1-<25%
13048-33-4	hexamethylene diacrylate Aquatic Acute 1, H400; Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	≥2.5-<10%
123-86-4	n-butyl acetate Flam. Liq. 3, H226 STOT SE 3, H336	5-9.99%
111497-86-0	Reaction product of 2-{2-[2-(acryloyloxy)-1-methylethoxy]-1-methylethoxy}-1-methylethyl acrylate and N-ethylethanamine Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1B, H317	5-9.99%
119-61-9	benzophenone Carc. 2, H351; STOT RE 2, H373 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	2.5-<10%
110-19-0	isobutyl acetate Flam. Liq. 2, H225 STOT SE 3, H336	2.5-4.99%
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide Skin Sens. 1, H317 Aquatic Chronic 4, H413	≥0.1-<0.5%

4 First-aid measures

- Description of first aid measures**

- General information:*

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

personal protective equipment for first aid responders is recommended. (please see section 8)

- After inhalation:*

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact:*

Immediately wash with water and soap and rinse thoroughly.

Take off immediately all contaminated clothing, include underwear and shoes (if necessary).

Rinse thoroughly with plenty of water for at least 20 minutes and take medical advise. If medical advise is needed have products container or label at hand.

- After eye contact:*

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- After swallowing: Do not induce vomiting; immediately call for medical help.*

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· Information for doctor:

- **Most important symptoms and effects, both acute and delayed**
For symptoms and effects caused by substances, refer to Section 11.
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

· Extinguishing media

- **Suitable extinguishing agents:** Alcohol resistant foam, CO, powder, water spray/mist.
- **For safety reasons unsuitable extinguishing agents:**
Do not use a jet water stream as it may scatter and spread fire.

· Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

· Advice for firefighters

Cool by spraying with water the containers to prevent product decomposition and the development of substances potentially hazardous for health and also, in the case of closed containers exposed to flames to prevent explosions.

· Protective equipment:

Hardhat with visor, fireproof clothing, suitable gloves and if necessary respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources

· Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

Dispose contaminated material as waste according to Section 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· Protective Action Criteria for Chemicals
· PAC-1:

13048-33-4	hexamethylene diacrylate	3 mg/m
123-86-4	n-butyl acetate	5 ppm
119-61-9	benzophenone	1.5 mg/m
110-19-0	isobutyl acetate	450 ppm

· PAC-2:

13048-33-4	hexamethylene diacrylate	170 mg/m
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123-86-4	n-butyl acetate	200 ppm
119-61-9	benzophenone	90 mg/m
110-19-0	isobutyl acetate	1300* ppm
· PAC-3:		
13048-33-4	hexamethylene diacrylate	990 mg/m
123-86-4	n-butyl acetate	3000* ppm
119-61-9	benzophenone	310 mg/m
110-19-0	isobutyl acetate	7500** ppm

7 Handling and storage

· Handling:

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

Protect against electrostatic charges.

Keep respiratory protective device available.

Use explosion-proof apparatus / fittings and spark-proof tools.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

· Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles:

Provide solvent resistant, sealed floor.

Observe the label precautions, the expiration date for the use, if not indicated, is from delivery date of goods.

In cases where there is no reported expiration date, it means that the product must be used within 8 months.

· Information about storage in one common storage facility: Not required.

· Further information about storage conditions: Keep receptacle tightly sealed.

· Specific end use(s) Those typical of the product and the instructions in the data sheet if required.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

· Control parameters

· Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

123-86-4 n-butyl acetate

PEL (USA) Long-term value: 710 mg/m , 150 ppm

REL (USA) Short-term value: 950 mg/m , 200 ppm

Long-term value: 710 mg/m , 150 ppm

TLV (USA) Short-term value: 712 mg/m , 150 ppm

Long-term value: 238 mg/m , 50 ppm

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· *Additional information:* The lists that were valid during the creation were used as basis.

· **Exposure controls**

· *Personal protective equipment:*

· *General protective and hygienic measures:*

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Store protective clothing separately.
- Avoid contact with the skin.
- Avoid contact with the eyes and skin.

· *Breathing equipment:*

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· *Protection of hands:*



Protective gloves

Due to missing tests no recommendation to the glove material can be given for the product. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The glove material has to be impermeable and resistant to the product .

· *Material of gloves*

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· *Penetration time of glove material*

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· *Eye protection:*



Tightly sealed goggles

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· *General Information*

· *Appearance:*

- *Form:* Fluid
- *Color:* According to product specification
- *Odor:* Characteristic
- *Odor threshold:* Not determined.

· *pH-value:* Not determined.

· *Change in condition*

- *Melting point/Melting range:* Undetermined.
- *Boiling point/Boiling range:* 117.2 °C (243 °F)

· *Flash point:* 48 °C (118.4 °F)

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· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:	235 °C (455 °F)	
· Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.	
· Explosion limits:		
· Lower:	1.2 Vol %	
· Upper:	10.5 Vol %	
· Vapor pressure at 25 °C (77 °F):	0 hPa (0 mm Hg)	
· Density (+/- 0,03) at 20 °C (68 °F):	1.092 g/cm (9.113 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
· Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/water):	Not determined.	
· Viscosity:		
· Dynamic:	Not determined.	
· Kinematic at 20 °C (68 °F):	40 s (ISO 4 mm)	
· Oxidising properties:	N.A.	
· Solvent content:		
· VOC content:	11.64 % 127.2 g/l / 1.06 lb/gal	
· Solids content:	88.4 %	
· Other information (HAPS)	No further relevant information available.	
1330-20-7	xylene	<0.1%
79-10-7	acrylic acid	<0.1%
100-41-4	ethylbenzene	<0.1%
123-31-9	1,4-dihydroxybenzene	<0.01%
· Other information	No further relevant information available.	

10 Stability and reactivity

- **Reactivity** typical of the product as indicated in the data sheet
 - **Chemical stability** The product is stable in normal conditions of storage and use recommended
 - **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** Vapours may form explosive mixtures with air
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

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11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

57472-68-1 oxybis(methyl-2,1-ethanediyl) diacrylate		
Oral	LD50	3,530 mg/kg (mouse)
Dermal	LD50	2,001 mg/kg (rabbit)
55818-57-0 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid		
Oral	LD50	2,001 mg/kg (mouse)
Dermal	LD50	2,001 mg/kg (rabbit)
13048-33-4 hexamethylene diacrylate		
Oral	LD50	5,001 mg/kg (mouse)
Dermal	LD50	3,601 mg/kg (rab)
123-86-4 n-butyl acetate		
Oral	LD50	10,760 mg/kg (mouse)
Dermal	LD50	14,000 mg/kg (rabbit)
Inhalative	LC50/4 h	21.1 mg/l (mouse)
111497-86-0 Reaction product of 2-{2-[2-(acryloyloxy)-1-methylethoxy]-1-methylethoxy}-1-methylethyl acrylate and N-ethylethanamine		
Oral	LD50	2,001 mg/kg (mouse)
Dermal	LD50	2,001 mg/kg (mouse)
119-61-9 benzophenone		
Oral	LD50	2,985 mg/kg (mouse)
Dermal	LD50	3,535 mg/kg (rabbit)
110-19-0 isobutyl acetate		
Oral	LD50	13,400 mg/kg (mouse)
Dermal	LD50	17,401 mg/kg (rabbit)
Inhalative	LC50/4 h	31 mg/l (mouse)
64742-95-6 Solvent naphtha (petroleum), light arom.		
Oral	LD50	6,801 mg/kg (mouse)
Dermal	LD50	3,401 mg/kg (rab)
Inhalative	LC50/4 h	20.1 mg/l (mouse)
162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide		
Oral	LD50	2,001 mg/kg (mouse)
Dermal	LD50	2,001 mg/kg (mouse)

· Primary irritant effect:

· on the skin: Irritant to skin and mucous membranes.

· on the eye:

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

· Sensitization: Sensitization possible through skin contact.

· Additional toxicological information:

Irritant

Causes skin irritation.

Causes serious eye damage.

May cause an allergic skin reaction.

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- **Carcinogenic categories**

Ethylbenzene

From IARC MONOGRAPHS VOLUME 77/2000

Human carcinogenicity data

Two studies of workers potentially exposed to ethylbenzene in a production plant and a styrene polymerization plant were available. In the first study, no excess of cancer incidence was found but the description of methods was insufficient to allow proper evaluation of this finding. In the second study, no cancer mortality excess was observed during the follow-up of 15 years.

Evaluation

There is inadequate evidence in humans for the carcinogenicity of ethylbenzene. There is sufficient evidence in experimental animals for the carcinogenicity of ethylbenzene.

- **IARC (International Agency for Research on Cancer - Cl. 1 and 2)**

119-61-9	benzophenone	2B
100-41-4	ethylbenzene	2B

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity** Toxic to aquatic life with long lasting effects.

- **Aquatic toxicity:**

57472-68-1 oxybis(methyl-2,1-ethanediyl) diacrylate

EC50	16.7 mg/l (algae) (72 h)
	22.3 mg/l (daphnia) (48 h)
	2.2 mg/l (Fish) (96 h)

13048-33-4 hexamethylene diacrylate

EC50	1.5 mg/l (algae) (72 h)
LC50 48h	2.6 mg/l (daphnia)
LC50 (96h)	10 mg/l (Fish)

123-86-4 n-butyl acetate

EC50	397 mg/l (algae) (72 h)
	44 mg/l (daphnia) (48 h)
LC50 (96h)	18 mg/l (Fish)

111497-86-0 Reaction product of 2-[2-[2-(acryloyloxy)-1-methylethoxy]-1-methylethoxy]-1-methylethyl acrylate and N-ethylethanamine

EC50	101 mg/l (algae) (72 h)
	101 mg/l (daphnia) (48 h)
LC50 (96h)	101 mg/l (Leuciscus idus melanotus)

119-61-9 benzophenone

EC50	3.5 mg/l (algae) (72 h)
	6,784 mg/l (daphnia) (48 h)
LC50 (96h)	15.3 mg/l (Fish)

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110-19-0 isobutyl acetate

EC50	370 mg/l (algae) (72 h)
	25 mg/l (daphnia)
LC50 (96h)	17 mg/l (Fish)

64742-95-6 Solvent naphtha (petroleum), light arom.

EC50	1 mg/l (algae) (72 h)
	1 mg/l (daphnia) (48 h)
LC50 (96h)	1 mg/l (Fish)

162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

EC50	1,175 mg/l (daphnia)
	48h

- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
 - **Bioaccumulative potential** No further relevant information available.
 - **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
 - **Remark:** Toxic for fish
- **Additional ecological information:**
 - **General notes:**

Water hazard class 2 (Self-assessment): hazardous for water
 Do not allow product to reach ground water, water course or sewage system.
 Must not reach bodies of water or drainage ditch undiluted or unneutralized.
 Danger to drinking water if even small quantities leak into the ground.
 Also poisonous for fish and plankton in water bodies.
 Toxic for aquatic organisms
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
 - **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
 Hand over to hazardous waste disposers.
 Dispose of contents and container in accordance with local state and federal regulations.
- **Uncleaned packagings:**
 - **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**
 - DOT NA1263
 - IMDG, IATA UN1263
- **UN proper shipping name**
 - DOT Paint
 - IMDG, IATA PAINT

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· **Transport hazard class(es)**

· **DOT**



· **Class** 3 Flammable liquids
· **Label** 3
· **Class** 3 Flammable liquids
· **Label** 3

· **IMDG, IATA**



· **Class** 3 Flammable liquids
· **Label** 3

· **Packing group**

· **DOT, IMDG, IATA** III

· **Environmental hazards:**

· **Marine pollutant:** No

· **Special precautions for user**

Warning: Flammable liquids

· **Danger code (Kemler):** 30
· **EMS Number:** F-E, S-E
· **Stowage Category** A

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

· **Transport/Additional information:**

· **Remarks:** Classification: 3 ADR P.G. III UN 1866
RESIN SOLUTION when packages > 450 liters
IMDG 3 P.G. III UN 1866
RESIN SOLUTION when packages > 30 liters

· **IMDG**

· **Limited quantities (LQ)** 5L
· **Excepted quantities (EQ)** Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

· **UN "Model Regulation":**

UN 1263 PAINT, 3, III

15 Regulatory information

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

Directive 96/82/EC

Dangerous for the environment 51/53

Limit 1: 100 t

Limit 2: 200 t

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· SARA

· Section 355 (extremely hazardous substances):

123-31-9	1,4-dihydroxybenzene	<0.01%
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· Section 313 (Specific toxic chemical listings) :

1330-20-7	xylene	<0.1%
79-10-7	acrylic acid	<0.1%
110-82-7	cyclohexane	<0.025%
100-41-4	ethylbenzene	<0.1%
123-31-9	1,4-dihydroxybenzene	<0.01%
1338-02-9	Naphthenic acids, copper salts	<0.01%
120-80-9	1,2-dihydroxybenzene	<0.01%
142-71-2	copper di(acetate)	<0.01%

· TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Hazardous Air Pollutants

1330-20-7	xylene
79-10-7	acrylic acid
100-41-4	ethylbenzene
123-31-9	1,4-dihydroxybenzene

· Proposition 65

· Chemicals known to cause cancer:

119-61-9	benzophenone	*	2.5-<10%
100-41-4	ethylbenzene	*	<0.1%

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

1330-20-7	xylene	I	<0.1%
110-82-7	cyclohexane	I	<0.025%
100-41-4	ethylbenzene	D	<0.1%

· TLV (Threshold Limit Value established by ACGIH)

14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)	A4
1330-20-7	xylene	A4
79-10-7	acrylic acid	A4
100-41-4	ethylbenzene	A3
123-31-9	1,4-dihydroxybenzene	A3

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

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- **National regulations:**
 The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** IVM Chemicals Srl
- **Contact:** See emergency phone
 - **Date of preparation / last revision** 08/28/2019 / 9
 - **Abbreviations and acronyms:**
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 ACGIH: American Conference of Governmental Industrial Hygienists
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 VOC: Volatile Organic Compounds (USA, EU)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 NIOSH: National Institute for Occupational Safety
 OSHA: Occupational Safety & Health
 TLV: Threshold Limit Value
 PEL: Permissible Exposure Limit
 REL: Recommended Exposure Limit
 Flam. Liq. 2: Flammable liquids . Category 2
 Flam. Liq. 3: Flammable liquids . Category 3
 Skin Irrit. 2: Skin corrosion/irritation . Category 2
 Eye Dam. 1: Serious eye damage/eye irritation . Category 1
 Eye Irrit. 2A: Serious eye damage/eye irritation . Category 2A
 Skin Sens. 1: Skin sensitisation . Category 1
 Skin Sens. 1B: Skin sensitisation . Category 1B
 Carc. 2: Carcinogenicity . Category 2
 STOT SE 3: Specific target organ toxicity (single exposure) . Category 3
 STOT RE 2: Specific target organ toxicity (repeated exposure) . Category 2
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard . Category 1
 Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard . Category 2
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard . Category 1
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard . Category 2
 Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard . Category 4
- **Sources**
 REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL and following amendments

 Agency ECHA web site
 INRS Fiche Toxicologique
 IARC International agency for research on cancer