



according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 Date of issue: 08/04/2025

> Version: 2.0 Reviewed on 08/04/2025

1 Identification

Product identifier

Product name: ADApt G6, UV-LED Ink, White

Other means of identification Article number: I-4853-WH

Application of the substance / the mixture: Printing inks

Details of the supplier of the safety data sheet

Direct Color Systems 99 Hammer Mill Rd. Rocky Hill, CT 06067-USA Manufacturer/Supplier: Direct Color Systems

99 Hammer Mill Rd. Rocky Hill, CT 06067-USA

Emergency telephone number US: 24/7 CHEMTREC 1-800-424-9300

Emergency telephone number International: 24/7 CHEMTREC +1 703-527-3887

2 Hazard(s) identification

Classification of the substance or mixture

Acute toxicity - oral 4 H302 Harmful if swallowed. Skin irritation 2 H315 Causes skin irritation. Eye damage 1 H318 Causes serious eye damage.

Sensitization - skin 1 H317 May cause an allergic skin reaction.

Reproductive toxicity 1B H360 May damage fertility or the unborn child.

Specific target organ toxicity (repeated exposure) 2 H373 May cause damage to organs through prolonged or repeated exposure.

Label elements

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







GHS05 GHS07

Signal word Danger

Hazard-determining components of labeling:

4-(1-oxo-2-propenyl)-morpholine

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

2-phenoxyethyl acrylate

Tetrahydrofurfuryl Acrylate

hexamethylene diacrylate

propylidynetrimethanol, propoxylated, esters with acrylic acid

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Date of issue: 08/04/2025 Version: 2.0 Reviewed on 08/04/2025

Product name: ADApt G6, UV-LED Ink, White

Isobournyl Acrylate

pentaerythritol, ethoxylated, esters with acrylic acid

3,3,5-Trimethylcyclohexyl acrylate

Hazard statements

Harmful if swallowed.

Causes skin irritation.

Causes serious eye damage.

May cause an allergic skin reaction.

May damage fertility or the unborn child.

May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Contaminated work clothing must not be allowed out of the workplace.

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

If swallowed: Call a poison center/doctor if you feel unwell.

If on skin: Wash with plenty of water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center/doctor.

IF exposed or concerned: Get medical advice/attention.

Specific treatment (see on this label).

Get medical advice/attention if you feel unwell.

Rinse mouth.

Take off contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

Store locked up.

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

Classification according to (d)(1)(ii) of § 1910.1200

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

Hazards not otherwise classified

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

5117-12-4 4-(1-oxo-2-propenyl)-morpholine	
Specific target organ toxicity (repeated exposure) 2, H373; Eye damage 1, H318; Acut toxicity - oral 4, H302; Sensitization - skin 1, H317	te

48145-04-6 2-phenoxyethyl acrylate

 $\geq 10 - \leq 25\%$

Reproductive toxicity 2, H361; Sensitization - skin 1A, H317

75980-60-8 diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 10 - 25%

Reproductive toxicity 1B, H360; Sensitization - skin 1B, H317

25 - 50%

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Date of issue: 08/04/2025 Version: 2.0 Reviewed on 08/04/2025

Product name: ADApt G6, UV-LED Ink, White

13048-33-4 hexamethylene diacrylate	≥ 2.5 - ≤ 25%
Skin irritation 2, H315; Eye irritation 2A, H319; Sensitization - skin 1, H317	
86178-38-3 3,3,5-Trimethylcyclohexyl acrylate	2.5 - 10%
Skin irritation 2, H315; Eye irritation 2A, H319; Sensitization - skin 1B, H317; Specific target organ toxicity (single exposure) 3, H336	
13463-67-7 titanium dioxide	$\geq 2.5 - \leq 10\%$
Carcinogenicity 2, H351	
53879-54-2 propylidynetrimethanol, propoxylated, esters with acrylic acid	2.5 - 10%
Eye irritation 2A, H319; Sensitization - skin 1, H317	
5888-33-5 Isobournyl Acrylate	2.5 - 10%
Skin irritation 2, H315; Eye irritation 2A, H319; Sensitization - skin 1, H317; Specific targe organ toxicity (single exposure) 3, H335	t
51728-26-8 pentaerythritol, ethoxylated, esters with acrylic acid	≥ 0 - ≤ 10%
Skin irritation 2, H315; Eye irritation 2A, H319; Sensitization - skin 1, H317	
2399-48-6 Tetrahydrofurfuryl Acrylate	≤ 2.5%
Reproductive toxicity 1B, H360; Skin corrosion 1C, H314; Eye damage 1, H318; Acute toxicity - oral 4, H302; Sensitization - skin 1, H317; Flammable liquids 4, H227	
108-88-3 Toluene	≥ 0 - ≤ 2.5%
Flammable liquids 2, H225; Reproductive toxicity 2, H361; Specific target organ toxicity (repeated exposure) 2, H373; Aspiration hazard 1, H304; Skin irritation 2, H315; Specific target organ toxicity (single exposure) 3, H336	
77-99-6 propylidynetrimethanol	$\geq 0 - \leq 2.5\%$
Reproductive toxicity 2, H361	
15305-07-4 Tris(N-hydroxy-N-nitrosophenylaminatoO,O')aluminium	≥ 0 - ≤ 2.5%
Acute toxicity - oral 4, H302; Sensitization - skin 1B, H317	

4 First-aid measures

Description of first aid measures

General information:

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

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.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing: Immediately call a doctor.

Most important symptoms and effects, both acute and delayed 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: Use fire fighting measures that suit the environment.

Special hazards arising from the substance or mixture No further relevant information available.

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Date of issue: 08/04/2025 Version: 2.0 Reviewed on 08/04/2025

Product name: ADApt G6, UV-LED Ink, White

Advice for firefighters

Protective equipment: No special measures required.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Not required.

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.

Dilute with plenty of water.

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).

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.

7 Handling and storage

Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

Information about protection against explosions and fires: Keep respiratory protective device available.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

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

Further information about storage conditions: Keep receptacle tightly sealed.

Specific end use(s) No further relevant information available.

* 8 Exposure controls/personal protection

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.

13048-33-4 hexamethylene diacrylate

WEEL Long-term value: 1 mg/m³

DSEN

108-88-3 Toluene

PEL Long-term value: 200 ppm

Ceiling limit value: 300; 500* ppm

*10-min peak per 8-hr shift

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Date of issue: 08/04/2025 Version: 2.0 Reviewed on 08/04/2025

Product name: ADApt G6, UV-LED Ink, White

REL Short-term value: 560 mg/m³, 150 ppm

Long-term value: 375 mg/m³, 100 ppm

TLV Long-term value: 20 ppm

BEI, OTO, A4

77-99-6 propylidynetrimethanol

TLV Long-term value: 3* mg/m³, 0.5* ppm *Inhalable fraction and vapor

Ingredients with biological limit values:

108-88-3 Toluene

BEI 0.02 mg/L

Medium: blood

Time: prior to last shift of workweek

Parameter: Toluene

0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene

0.3 mg/g creatinine Medium: urine Time: end of shift

Parameter: o-Cresol with hydrolysis (background)

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

Exposure controls

Appropriate engineering controls No further data; see section 7.

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 eyes.

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

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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.

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Date of issue: 08/04/2025 Version: 2.0 Reviewed on 08/04/2025

Product name: ADApt G6, UV-LED Ink, White

Eye protection:



Tightly sealed goggles

* 9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Physical stateColor:
Liquid
White

Odor:CharacteristicOdor threshold:Not determined.Melting point/Melting range:Undetermined.Boiling point/Boiling range:107 °C (224.6 °F)Flammability:Not applicable.

Explosion limits:

Lower: Not determined.
Upper: Not determined.
Flash point: Not applicable.
Decomposition temperature: Not determined.
pH-value: Not determined.

Viscosity:

Kinematic: Not determined.

Dynamic: Not determined.

Solubility in / Miscibility with

Water: Fully miscible.

Partition coefficient (n-octanol/water): Not determined.

Vapor pressure: Not determined.

Vapor pressure:

Density:Not determined.Relative densityNot determined.Vapor densityNot determined.Particle characteristicsNot applicable.

Other information

Appearance:

Form: Liquid

Important information on protection of health and

environment, and on safety.

Ignition temperature: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Change in condition

Evaporation rate Not determined.

10 Stability and reactivity

Reactivity No further relevant information available.

Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid No further relevant information available.

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Date of issue: 08/04/2025 Version: 2.0 Reviewed on 08/04/2025

Product name: ADApt G6, UV-LED Ink, White

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

*11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral LD50 < 1,754 mg/kg

5117-12-4 4-(1-oxo-2-propenyl)-morpholine

Oral LD50 500 mg/kg (ATE)

13048-33-4 hexamethylene diacrylate

Oral LD50 > 5,000 mg/kg (rat) Dermal LD50 > 3,000 mg/kg (rab)

13463-67-7 titanium dioxide

Oral LD50 > 20,000 mg/kg (rat)
Dermal LD50 > 10,000 mg/kg (rabbit)

Inhalative LC50/4 h > 6.82 mg/l (rat)

53879-54-2 propylidynetrimethanol, propoxylated, esters with acrylic acid

Oral LD50 > 2,000 mg/kg (rat)

51728-26-8 pentaerythritol, ethoxylated, esters with acrylic acid

Oral LD50 5,000 mg/kg (rat)
Dermal LD50 3,640 mg/kg (rabbit)

2399-48-6 Tetrahydrofurfuryl Acrylate

Oral LD50 928 mg/kg (rat)

108-88-3 Toluene

Oral LD50 5,000 mg/kg (rat)
Dermal LD50 12,124 mg/kg (rabbit)
Inhalative LC50/4 h 5,320 mg/l (mouse)

77-99-6 propylidynetrimethanol

Oral LD50 14,100 mg/kg (rat)

15305-07-4 Tris(N-hydroxy-N-nitrosophenylaminatoO,O')aluminium

Oral LD50 500 mg/kg (ATE)

Primary irritant effect:

on the skin: No irritant effect.

on the eye: Strong irritant with the danger of severe eye injury.

Sensitization: Sensitization possible through skin contact.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful Irritant

Interactive effects No interactive effects between components are known.

Carcinogenic categories

IARC (International Agency for Research on Cancer)

13463-67-7 titanium dioxide: 2B

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Date of issue: 08/04/2025 Version: 2.0 Reviewed on 08/04/2025

Product name: ADApt G6, UV-LED Ink, White

108-88-3 Toluene: 3 79-10-7 acrylic acid: 3

15625-89-5 2,2-bis(acryloyloxymethyl)butyl acrylate: 2B

128-37-0 Butylated hydroxytoluene: 3

100-41-4 ethylbenzene: 2B

127-19-5 N,N-dimethylacetamide: 2B NTP (National Toxicology Program)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

Alternative sources for toxicological information

No non-standard sources for toxicological information where used.

12 Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available. **Bioaccumulative potential** No further relevant information available.

Mobility in soil No further relevant information available.

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable. Other adverse effects Remark: Toxic for fish

Additional ecological information:

General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

13 Disposal considerations

Waste treatment methods

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations. **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

UN-Number

DOT not regulated **IMDG, IATA** UN3082

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Date of issue: 08/04/2025 Version: 2.0 Reviewed on 08/04/2025

Product name: ADApt G6, UV-LED Ink, White

UN proper shipping name

DOT not regulated

IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (2-phenoxyethyl acrylate, hexamethylene diacrylate), MARINE

POLLUTANT

IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (2-phenoxyethyl acrylate, hexamethylene diacrylate)

Transport hazard class(es)

DOT

Class not regulated

IMDG, IATA



Class 9 Miscellaneous dangerous substances and articles

Label 9

Packing group

DOT not regulated

IMDG, IATA

Environmental hazards:

Marine pollutant: Symbol (fish and tree)
Special marking (IATA): Symbol (fish and tree)

Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

Transport/Additional information:

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

Special precautions for user Warning: Miscellaneous dangerous substances and articles

Hazard identification number (Kemler code): 90
EMS Number: F-A,S-F
Segregation groups (SGG1) Acids

Stowage Category A

UN "Model Regulation": UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

LIQUID, N.O.S. (2-PHENOXYETHYL ACRYLATE,

HEXAMETHYLENE DIACRYLATE), 9, III

*15 Regulatory information

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

No further relevant information available.

SARA

Section 355 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

108-88-3 Toluene

79-10-7 acrylic acid

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Date of issue: 08/04/2025 Version: 2.0 Reviewed on 08/04/2025

Product name: ADApt G6, UV-LED Ink, White

TSCA (Toxic Substances Control Act):

5117-12-4 4-(1-oxo-2-propenyl)-morpholine: ACTIVE

48145-04-6 2-phenoxyethyl acrylate: ACTIVE

75980-60-8 diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide: ACTIVE

13048-33-4 hexamethylene diacrylate: ACTIVE

86178-38-3 3,3,5-Trimethylcyclohexyl acrylate: ACTIVE

13463-67-7 titanium dioxide: ACTIVE

53879-54-2 propylidynetrimethanol, propoxylated, esters with acrylic acid: ACTIVE

5888-33-5 Isobournyl Acrylate: ACTIVE

51728-26-8 pentaerythritol, ethoxylated, esters with acrylic acid: ACTIVE

108-88-3 Toluene: ACTIVE

77-99-6 propylidynetrimethanol: ACTIVE

15305-07-4 Tris(N-hydroxy-N-nitrosophenylaminatoO,O')aluminium: ACTIVE

Hazardous Air Pollutants

108-88-3 Toluene

79-10-7 acrylic acid

100-41-4 ethylbenzene

Proposition 65

Chemicals known to cause cancer:

13463-67-7 titanium dioxide

15625-89-5 2,2-bis(acryloyloxymethyl)butyl acrylate

100-41-4 ethylbenzene

127-19-5 N,N-dimethylacetamide

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

127-19-5 N,N-dimethylacetamide

Chemicals known to cause developmental toxicity:

108-88-3 Toluene

127-19-5 N,N-dimethylacetamide

Carcinogenic categories

EPA (Environmental Protection Agency)

108-88-3 Toluene: II

110-82-7 cyclohexane: I

100-41-4 ethylbenzene: D

TLV (Threshold Limit Value)

13463-67-7 titanium dioxide: A4

108-88-3 Toluene: A4

79-10-7 acrylic acid: A4

128-37-0 Butylated hydroxytoluene: A4

100-41-4 ethylbenzene: A3

127-19-5 N,N-dimethylacetamide: A4

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

13463-67-7 titanium dioxide

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

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Date of issue: 08/04/2025 Version: 2.0 Reviewed on 08/04/2025

Product name: ADApt G6, UV-LED Ink, White

Hazard pictograms







GHS05

GHS07

GHS08

Signal word Danger

Hazard-determining components of labeling:

4-(1-oxo-2-propenyl)-morpholine

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

2-phenoxyethyl acrylate

Tetrahydrofurfuryl Acrylate

hexamethylene diacrylate

propylidynetrimethanol, propoxylated, esters with acrylic acid

Isobournyl Acrylate

pentaerythritol, ethoxylated, esters with acrylic acid

3,3,5-Trimethylcyclohexyl acrylate

Hazard statements

Harmful if swallowed.

Causes skin irritation.

Causes serious eye damage.

May cause an allergic skin reaction.

May damage fertility or the unborn child.

May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Contaminated work clothing must not be allowed out of the workplace.

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

If swallowed: Call a poison center/doctor if you feel unwell.

If on skin: Wash with plenty of water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center/doctor.

IF exposed or concerned: Get medical advice/attention.

Specific treatment (see on this label).

Get medical advice/attention if you feel unwell.

Take off contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

Store locked up.

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

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.

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Date of issue: 08/04/2025 Version: 2.0 Reviewed on 08/04/2025

Product name: ADApt G6, UV-LED Ink, White

Relevant phrases

H225 Highly flammable liquid and vapor.

H227 Combustible liquid.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H360 May damage fertility or the unborn child.

H361 Suspected of damaging fertility or the unborn child.

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

Date of previous version 12/13/2023

Version number of previous version: 1.0

Date of preparation 08/04/2025

Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flammable liquids 2: Flammable liquids – Category 2

Flammable liquids 4: Flammable liquids – Category 4

Acute toxicity - oral 4: Acute toxicity - Category 4

Skin corrosion 1C: Skin corrosion/irritation – Category 1C

Skin irritation 2: Skin corrosion/irritation – Category 2

Eye damage 1: Serious eye damage/eye irritation - Category 1

Eye irritation 2A: Serious eye damage/eye irritation - Category 2A

Sensitization - skin 1: Skin sensitisation - Category 1

Sensitization - skin 1A: Skin sensitisation - Category 1A

Sensitization - skin 1B: Skin sensitisation - Category 1B

Carcinogenicity 2: Carcinogenicity - Category 2

Reproductive toxicity 1B: Reproductive toxicity – Category 1B

Reproductive toxicity 2: Reproductive toxicity – Category 2

Specific target organ toxicity (single exposure) 3: Specific target organ toxicity (single exposure) - Category 3

Specific target organ toxicity (repeated exposure) 2: Specific target organ toxicity (repeated exposure) - Category 2

Aspiration hazard 1: Aspiration hazard – Category 1

* Data compared to the previous version altered.