COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No1907/2006

Issue Date: 23.08.2018 *Date of Revision: 06.09.2023* *Due Date of Revision : 03.04.2026*

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

· ***1.1 Product identifier***

· ***Trade name: D & C Red 28***
· ***CAS Number:***
18472-87-2
· ***EC number:***
242-355-6
· ***Registration number*** *01-2120115907-54-0000*
· ***1.2 Relevant identified uses of the substance or mixture and uses advised against***
· ***Sector of Use***
SU1 Agriculture, forestry, fishery
SU5 Manufacture of textiles, leather, fur
SU6b Manufacture of pulp, paper and paper products
SU8 Manufacture of bulk, large scale chemicals (including petroleum products)
SU9 Manufacture of fine chemicals
SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
· ***Product category***
PC1 Adhesives, sealants
PC3 Air care products
PC9c Finger paints
PC12 Fertilisers
PC13 Fuels
PC18 Ink and toners
PC19 Intermediate
PC21 Laboratory chemicals
PC23 Leather treatment products
PC24 Lubricants, greases, release products
PC26 Paper and board treatment products
PC28 Perfumes, fragrances
PC29 Pharmaceuticals
PC31 Polishes and wax blends
PC33 Semiconductors
PC34 Textile dyes, and impregnating products
PC35 Washing and cleaning products (including solvent based products)
PC39 Cosmetics, personal care products
· ***Process category***
PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
PROC4 Chemical production where opportunity for exposure arises
PROC5 Mixing or blending in batch processes

PROC7 Industrial spraying
PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities
PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
PROC10 Roller application or brushing
PROC11 Non industrial spraying
PROC15 Use as laboratory reagent

· ***Environmental release category***
ERC1 Manufacture of the substance
ERC2 Formulation into mixture
ERC3 Formulation into solid matrix
ERC5 Use at industrial site leading to inclusion into/onto article
ERC6a Use of intermediate
ERC6b Use of reactive processing aid at industrial site (no inclusion into or onto article)
ERC6c Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article)
ERC6d Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article)
ERC7 Use of functional fluid at industrial site
ERC8c Widespread use leading to inclusion into/onto article (indoor)
ERC9a Widespread use of functional fluid (indoor)
ERC9b Widespread use of functional fluid (outdoor)
ERC10a Widespread use of articles with low release (outdoor)

· ***Article category***
AC1 Vehicles
AC4 Stone, plaster, cement, glass and ceramic articles
AC6 Leather articles
AC8 Paper articles
AC10 Rubber articles
AC11 Wood articles
AC13 Plastic articles

· ***Application of the substance / the mixture***
used in the textile industry for dyeing of all natural fibres, e.g. wool, cotton, silk and synthetics, e.g. polyesters, acrylic and rayon. To a less extent they are used in a variety of application fields such as in paints, inks, plastics and leather.

· ***1.3 Details of the supplier of the safety data sheet***
Manufacturer/Supplier:

Windy Point Soap Making Supplies Inc.
14, 6125-12th Street SE
Calgary, AB T2H 2K1
587-318-6678

. ***1.4 Emergency telephone number:***
M/s Neelikon Food Dyes & Chemicals Ltd.,
D-8,Everest,5th Floor,Pdt.M.M.Marg,Tardeo Circle,
Mumbai 34,India
Tel.: 00 91 22 66626 874,
Mobile No.:00 91 9970004002
Kind Attn. Mr. Rajeev Mathyal

SECTION 2: Hazards identification

· ***2.1 Classification of the substance or mixture***
· ***Classification according to Regulation (EC) No 1272/2008***

Eye Irrit. 2 H319 Causes serious eye irritation.

· ***2.2 Label elements***
· ***Labelling according to Regulation (EC) No 1272/2008***
The substance is classified and labelled according to the CLP regulation.
· ***Hazard pictograms***

GHS07
· ***Signal word*** *Warning*
· ***Hazard statements***
H319 Causes serious eye irritation.
· ***Precautionary statements***
P264 *Wash thoroughly after handling.*
P280 *Wear eye protection / face protection.*

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
· **2.3 Other hazards** The substance has no endocrine-disrupting properties according to Regulation (EU) 2017/2100
· **Results of PBT and vPvB assessment**
· **PBT:** The substance is not PBT.
· **vPvB:** The substance is not vPvB.

SECTION 3: Composition/information on ingredients

· **3.1 Chemical characterisation: Substances**
· **CAS No. Description**
CAS: 18472-87-2 3,4,5,6-tetrachloro-2-(1,4,5,8-tetrabromo-6-hydroxy-3-oxoxanthen-9-yl) benzoic acid
· **Identification number(s)**
· **EC number:** 242-355-6
· **Additional information:**
Molecular Formula : C20H4Br4Cl4Na2O5
Molecular Weight : 831.65 g/mol
· **SVHC** The substance is not in the SVHC list.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**
· **General information:**
Consult a physician. Show this safety data sheet to the doctor in attendance
· **After inhalation:**
In case of unconsciousness place patient stably in side position for transportation. If breathed in, move person into fresh air. If not breathing give artificial respiration. Supply fresh air; consult doctor in case of complaints.
· **After skin contact:**
Immediately wash with water and soap and rinse thoroughly. Seek medical treatment.
· **After eye contact:**
Flush immediately with plenty of water for at least 15 min. Contact doctor.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· **After swallowing:**
Never give anything by mouth to an unconscious person. Rinse mouth with water.
Rinse mouth with water.
Call a doctor immediately.
· **Information for doctor:** Treat symptomatically and supportively.

· ***4.2 Most important symptoms and effects, both acute and delayed***
Eye: May cause eye irritation.
Skin: May cause skin irritation.
Ingestion: May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.
Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated
· ***4.3 Indication of any immediate medical attention and special treatment needed***
No further relevant information available.

SECTION 5: Firefighting measures

· ***5.1 Extinguishing media***
· ***Suitable extinguishing agents:***
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· ***5.2 Special hazards arising from the substance or mixture***
carbon monoxide (CO), carbon dioxide (CO2), hydrogen bromide, hydrogen chloride, phosgene, other pyrolysis products typical of burning organic material.
· ***5.3 Advice for firefighters***
Wear suitable protective clothing to avoid contact with skin.
Wear self-contained respiratory protective device.
· ***Protective equipment:***
Wear self contained breathing appartus and protective clothing to prevent contact with skin.

SECTION 6: Accidental release measures

· ***6.1 Personal precautions, protective equipment and emergency procedures***
Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.
· ***6.2 Environmental precautions:***
Inform respective authorities in case of seepage into water course or sewage system.
· ***6.3 Methods and material for containment and cleaning up:***
Ensure adequate ventilation.Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
· ***6.4 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.

SECTION 7: Handling and storage

· ***7.1 Precautions for safe handling***
Information for safe handling:Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.Normal measures for preventive fire protection.
· ***Information about fire - and explosion protection:***
Keep ignition sources away - Do not smoke.

· ***7.2 Conditions for safe storage, including any incompatibilities***
· ***Storage:***
· ***Requirements to be met by storerooms and receptacles:*** *Store in ambient temperature and dry place.*
· ***Information about storage in one common storage facility:***
Store in ambient temperature and dry place and well-ventilated area away from incompatible substances. Keep container tightly sealed
· ***Further information about storage conditions:***
Store in ambient temperature. Keep container tightly closed in a dry and well-ventilated place.
· ***7.3 Specific end use(s)***
used in the textile industry for dyeing of all natural fibres, e.g. wool, cotton, silk and synthetics, e.g. polyesters, acrylic and rayon. To a less extent they are used in a variety of application fields such as in paints, inks, plastics and leather.

SECTION 8: Exposure controls/personal protection

· ***8.1 Control parameters***
· ***Additional information about design of technical facilities:*** *No further data; see item 7.*
· ***Ingredients with limit values that require monitoring at the workplace:*** *Not required.*
· ***DNELs***
Data for WORKERS
- INHALATION Exposure
Systemic Effects Long-term : (DNEL) 15.1 mg/m³ (effect on fertility)
- DERMAL Exposure
Systemic Effects Long-term : (DNEL) 4.29 mg/kg bw/day (effect on fertility)
Data for the GENERAL POPULATION
- INHALATION Exposure
Systemic Effects Long-term : (DNEL) 2.27 mg/m³ (effect on fertility)
- DERMAL Exposure
Systemic Effects Long-term : (DNEL) 1.53 mg/kg bw/day (effect on fertility)
- ORAL Exposure
Systemic Effects Long-term : (DNEL) 1.53 mg/kg bw/day (effect on fertility)
· ***PNECs***
Hazard for Aquatic Organisms
- PNEC Freshwater : 7.5 µg/L

- PNEC Intermittent releases (freshwater) : 75 µg/L
- PNEC Marine water : 750 ng/L
- PNEC Intermittent releases (marine water) : 7.5 µg/L
- PNEC Sewage treatment plant (STP) : 2.5 mg/L
- PNEC Sediment (freshwater) : 53.5 µg/kg sediment dw
- PNEC Sediment (marine water) : 5.35 µg/kg sediment dw

Hazard for Terrestrial Organism
- PNEC Soil : 6.31 µg/kg soil dw

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

· ***8.2 Exposure controls***
· ***Personal protective equipment:***
· ***General protective and hygienic measures:***
Wash hands before breaks and at the end of workday.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
· ***Protection of hands:***
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.
· ***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

· ***Body protection:*** *Protective work clothing*

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**	
· **General Information**	
Appearance:	Solid
· **Form:**	Powder
· **Colour:**	Dark Red
· **Odour:**	Characteristic
· **Change in condition**	
Melting point/freezing point:	Not Applicable.
Initial boiling point and boiling range:	Not Applicable.
· **Flash point:**	The flash point is only a relevant property for liquids, thus it does not need to be done for substances that are solids or gases at room temperature.
· **Flammability (solid, gas):**	Product is not flammable.
· **Decomposition temperature:**	252-260 °C
· **Explosive properties:**	Product does not present an explosion hazard.
· **Bulk Density:**	0.8-1.2 gm/cc(After tapping).
· **Solubility in / Miscibility with water:**	200.0 g/l
· **Partition coefficient: n-octanol/water:**	Not determined.
· **9.2 Other information**	Particle size distribution (Granulometry) : The particle size distribution of test item3,4,5,6-tetrachloro-2-(1,4,5,8-tetrabromo-6-hydroxy-3-oxoxanthen-9-yl)benzoic acid(CAS No. 18472-87-2) was determined by granulometric analysis with rotap sieve shaker. The particle size distribution was determine to be in the range of 150 micron to 25 micron.

SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.
· **10.2 Chemical stability** Stable at ambient temperature and under normal conditions of use.

· ***Thermal decomposition / conditions to be avoided:***
Avoid contact with incompatible materials
Keep away from excess heat
· ***10.3 Possibility of hazardous reactions*** *No dangerous reactions known.*
· ***10.4 Conditions to avoid*** *No further relevant information available.*
· ***10.5 Incompatible materials:*** *strong oxidising agents*
· ***10.6 Hazardous decomposition products:***
Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

SECTION 11: Toxicological information

· ***11.1 Information on toxicological effects***
· ***Acute toxicity*** *Based on available data, the classification criteria are not met.*

· ***LD/LC50 values relevant for classification:***		
Oral	*LD50*	*>2000 Mg/kg bw (rat) (OECD Guideline 423)*
Dermal	*LD50*	*>2000 Mg/kg bw (rat) (OECD Guideline 402)*

· ***Primary irritant effect:***
· ***Skin corrosion/irritation***
Skin irritation: in vivo
The test item 3,4,5,6-tetrachloro-2-(1,4,5,8-tetrabromo-6-hydroxy-3-oxoxanthen-9-yl)benzoic acid (CAS No. 18472-87-2) was applied to shorn skin of 5 male and 5 female animals at 2000 mg/kg body weight. Administration of the test item at 2000 mg/kg did not result in any skin reaction at the site of application during the study period of 14 days. Also, the erythema and edema score of rats was calculated as 0. Administration of the test item did not result in any signs of toxicity and mortality during the study period of 14 days. Animals exhibited normal body weight gain through the study period of 14 days. Gross pathological examination did not reveal any abnormalities attributable to the treatment.
Hence, it was concluded that 3,4,5,6-tetrachloro-2-(1,4,5,8-tetrabromo-6-hydroxy-3-oxoxanthen-9-yl)benzoic acid (CAS No. 18472-87-2) was Non-Irritating to the skin of Sprague Dawley rats under the experimental conditions tested and Classified as "Category-Unclassified" as per CLP Classification.
· ***Serious eye damage/irritation***
Causes serious eye irritation.
Eye irritation: in vitro / ex vivo
Species : human
Vehicle : phosphate-buffered saline (PBS)
Method : The Vitrigel-EIT method is composed of two parts, i.e., the construction of a human corneal epithelium (HCE) model in a collagen vitrigel membrane chamber and the prediction of eye irritancy by analyzing the time-dependent profile of transepithelial electrical resistance values for 3 min after exposing a chemical to the HCE model. Every test chemical solution was prepared in a culture medium at a concentration of 2.5 (weight/volume) % appropriate

for measuring TEER values without being influenced by the test chemical-dependent electrical resistance. The HCE models on day 6 were subjected to the exposure experiment of test chemicals. At first, 500 µl of culture medium was poured in the chamber and the value of the Rsample, before chemical exposures, was measured to obtain the initial TEER value of each model. Next, the medium inside the chamber was changed to 500 µl of test chemical solution and the periodical values of Rsample were measured by the TEER recorder at intervals of 10 s for 3 min after exposure of each test solution. Three independent models were subjected to the exposure experiment for each test solution to plot the average time-dependent profile of TEER values on a chart. The chemical exposure experiment was conducted in the ambient temperature of 28 ± 2 °C.
Conclusions : The Vitrigel-EIT method is composed of two parts, i.e., the construction of a human corneal epithelium (HCE) model in a collagen vitrigel membrane chamber and the prediction of eye irritancy by analyzing the time-dependent profile of transepithelial electrical resistance values for 3 min after exposing a chemical to the HCE model. Based on the criteria for judgment of Vitrigel assay, the test chemical is predicted to be irritating to human eyes.

· ***Respiratory or skin sensitisation***
Skin sensitisation: in vivo (non-LLNA)
Type of study : patch test
Species : human
Method : The sensitization potential of D & C Red 28 / Lavanya Happy was determined by performing patch tests on humans. The dye was applied in Finn Chambers and read first at 2 or (more commonly) 3 days and again at 4–7 days. The reactions of the patients were graded as '?+ '
, '+' and '++' categories.
9 patients were tested with the dye. No reactions were reported by all the patients.
The substance 3,4,5,6-tetrachloro-2-(1,4,5,8-tetrabromo-6-hydroxy-3-oxoxanthen-9-yl) benzoic acid (D & C Red 28 / Lavanya Happy) can be considered as a non-sensitizer in humans.
Conclusions : According to the CLP classification criteria the substance 3,4,5,6-tetrachloro-2-(1,4,5,8 -tetrabromo-6-hydroxy-3-oxoxanthen-9-yl)benzoic acid (D & C Red 28 / Lavanya Happy) can be considered as a non- sensitizer in humans.

· ***Additional toxicological information:***

· ***Repeated dose toxicity***
Repeated dose toxicity: oral
Species : rat
Strain : Fischer 344
Sex : male
Route of administration : oral: feed
Vehicle : Blended rat chow (Teklad 4% Mouse-Rat Diet)
Duration of treatment / exposure : 14 days
Method : In a repeated dose oral toxicity study, Fischer-344 (F-344) male rats were treated with 3,4,5,6-tetrachloro-2-(1,4,5,8-tetrabromo-6-hydr oxy-3-oxoxanthen-9-yl) benzoic acid (D&C Red No. 28) (CAS Number: 18472-87-2) orally in diet in the concentration of 500 mg/ kg/day. Increase in body weight gain was observed in treated rats. As there is no control in the study the effect were not supposed to be treatment related. Daily intake would be 500

mg/kg for 14 days. Therefore, NOAEL was considered to be 500 mg/kg/day on the basis of body weight when Fischer-344 (F-344) male rats were treated with 3,4,5,6-tetrachloro-2-(1,4,5,8 -tetrabromo-6-hydr oxy-3-oxoxanthen-9-yl)benzoic acid (D&C Red No. 28) (CAS Number: 18472-87-2) for 14 days.
Conclusions : NOAEL was considered to be 500 mg/kg/day when Fischer-344 (F-344) male rats were treated with 3,4,5,6-tetrachloro-2-(1,4,5,8-tetrabromo-6-hydr oxy-3-oxoxanthen-9-yl)benzoic acid (D&C Red No. 28) (CAS Number: 18472-87-2).

· ***CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)***
· ***Germ cell mutagenicity*** *Based on available data, the classification criteria are not met.*
· ***Carcinogenicity*** *Based on available data, the classification criteria are not met.*
· ***Reproductive toxicity***
NOAEL was considered to be 920 mg/kg/day for F0 and F1 generation when Wistar female rats treated with 3,4,5,6-tetrachloro-2- (1,4,5,8-tetra bromo-6-hydroxy-3-oxoxanthen-9-yl) benzoic acid (Food dye Red No.104 / phloxine) (CAS No.18472-87-2).
· ***STOT-single exposure*** *Based on available data, the classification criteria are not met.*
· ***STOT-repeated exposure*** *Based on available data, the classification criteria are not met.*
· ***Aspiration hazard*** *Based on available data, the classification criteria are not met.*
· ***11.2.1 Endocrine -disrupting properties:****The substance has no endocrine- Disrupting properties according to Regulation (EU) 2017/2100.*
· ***11.2.2 Information on other hazards :*** *No further information is available*

SECTION 12: Ecological information

· ***12.1 Toxicity***

· ***Aquatic toxicity:***	
LC50 (96hrs)	*>100 Mg/L (Danio rerio) (OECD Guideline 203)*

· ***12.2 Persistence and degradability*** *The substance is readily biodegradable*
· ***12.3 Bioaccumulative potential***
The substance in non-bioaccumulative.
The bioconcentration factor (BCF) for 3,4,5,6-tetrachloro-2-(1,4,5,8-tetrabromo-6-hydroxy-3-oxoxanthen-9-yl)benzoic acid (CAS no. 18472-87-2) is estimated as 802.7 L/kg wet-wt
· ***12.4 Mobility in soil***
The substance has strong adsorption to soil and negligible migration potential to ground water
Log Koc value was determine to be 1.549 ± 0.002 at 25°C.
· ***Additional ecological information:***
· ***General notes:***
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
· ***12.5 Results of PBT and vPvB assessment***
· ***PBT:*** *Not PBT .*
· ***vPvB:*** *Not vPvB.*

· ***12.6 Endocrine-disrupting properties:*** *The substance has no endocrine disrupting properties according to Regulation (EU) 2017/2100.*
12.7 Other adverse effects : *No further relevant information available*

SECTION 13: Disposal considerations

· ***13.1 Waste treatment methods***
· ***Recommendation*** *Must not be disposed together with household garbage.*

· ***Uncleaned packaging:***
· ***Recommendation:*** *Disposal must be made according to official regulations.*

SECTION 14: Transport information

· ***14.1 UN-Number*** · ***ADR, IMDG, IATA***	*Not Regulated*
· ***14.2 UN proper shipping name*** · ***ADR, IMDG, IATA***	*Not Regulated*
· ***14.3 Transport hazard class(es)*** · ***ADR, ADN, IMDG, IATA*** · ***Class***	*Not Regulated*
· ***14.4 Packing group*** · ***ADR, IMDG, IATA***	*Not Regulated*
· ***14.5 Environmental hazards:*** · ***Marine pollutant:***	*No*
· ***14.6 Special precautions for user***	*Not applicable.*
· ***14.7 Transport in bulk according to Annex II of Marpol and the IBC Code***	*Not applicable.*
· ***UN "Model Regulation":***	*Not Regulated*

SECTION 15: Regulatory information

· ***15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture***
· ***Labelling according to Regulation (EC) No 1272/2008***
The substance is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS07

· ***Signal word*** *Warning*
· ***Hazard statements***
H319 Causes serious eye irritation.
· ***Precautionary statements***

P264	*Wash thoroughly after handling.*
P280	*Wear eye protection / face protection.*
P305+P351+P338	*IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*
P337+P313	*If eye irritation persists: Get medical advice/attention.*

· ***Directive 2012/18/EU***
· ***Named dangerous substances - ANNEX I*** *Substance is not listed.*

· ***Other regulations, limitations and prohibitive regulations***
· ***Substances of very high concern (SVHC) according to REACH, Article 57***
The substance is not listed as SVHC.
· ***15.2 Chemical safety assessment:***
A Chemical Safety Assessment has been carried out.

SECTION 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.

· ***Abbreviations and acronyms:***
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
P: Marine Pollutant
GHS: Globally Harmonised 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)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

· ***Sources***
REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on classification, labelling and packaging of substances and mixtures, amending and repealing COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006
- ECHA: https://echa.europa.eu/registration-dossier/-/registered-dossier/17402/5/3/2
- CSR (CAS 18472-87-2)
- ChemID Plus: https://chem.nlm.nih.gov/chemidplus/rn/18472-87-2

· ***Data compared to the previous version altered.***
- *Section 1: Identification of the substance/mixture and of the company/undertaking*
- *Section 2: Hazard Identification*
- *Section 3: Composition/information on ingredients*
- *Section 4: First-aid measures.*
- *Section 5: Fire-fighting measures*
- *Section 6: Accidental Release measures*
- *Section 7: Handling and storage.*
- *Section 8: Exposure Controls/Personal protection.*
- *Section 9: Physical and Chemical properties.*
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