Printing date 23.11.2022

Version number 1

Revision: 23.11.2022

SECTION 1: Identification of the substance/mixture and of the company, undertaking · 1.1 Product identifier · Trade name: <u>1.4-dioxane</u> · CAS Number: 123-91-1 · EC number: 204-661-8 · Index number: 603-024-00-5 · Registration number 01-2119462837-26-0002 · 1.2 Relevant identified uses of the substance or mixture and uses advised against · Sector of Use SU12 Manufacture of plastics products, including compounding and conversion SU0 Other SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites 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) SU20 Health services SU24 Scientific research and development SU 0: Other: SU22: Professional uses: public domain · Product category PC15 Non-metal-surface treatment products PC20 Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents PC21 Laboratory chemicals 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 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) PROC15 Use as laboratory reagent Environmental release category ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) ERC9a Widespread use of functional fluid (indoor) ERC1 Manufacture of the substance (Contd. on page 2)

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(Contd. of page 1) ERC2 Formulation into mixture ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article) ERC6a Use of intermediate ERC6b Use of reactive processing aid at industrial site (no inclusion into or onto article) · Article category AC13 Plastic articles AC7 Metal articles · Technical function Solvent · Application of the substance / the mixture Used as solvents · 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: Kairav Chemofarbe Industries Ltd 502, Filix, LBS Marg,, **Opposite Asian Paints**, Bhandup(w), Mumbai 400078 OR Details Global Product Compliance (Europe) AB, Ideon Science Park, Scheelevägen 17, Beta 5, 22370 Lund, Sweden · Further information obtainable from: Dr. Aditya Pattani Email: aditya.pattani@chemofarbe.com Ph: 022-25392453, 22010930 Fax:22010918 · 1.4 Emergency telephone number: Contact details of European importer Emergency telephone number: Telephone number of EU importer: Opening hours: Other Comments (e.g. language(s) of the phone service): English

SECTION 2: Hazards identification

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



Flam. Liq. 2 H225 Highly flammable liquid and vapour.

(Contd. on page 2)

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EUH066 Repeated exposure may cause skin dryness or cracking.

• **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
- 123-91-1 1,4-dioxane
- Identification number(s)
- EC number: 204-661-8
- · Index number: 603-024-00-5
- Additional information: Molecular formula: C4H8O2

Molecular weight range: 88.1051 g/mole

Degree of purity: > 99.1 - < 99.9 w/w

SVHC

1,4-Dioxane Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1272/2008 (REACH) because of carcinogenicity category 1B and therefore listed under article 57f

CAS: 123-91-1 1,4-dioxane

SECTION 4: First aid measures

• 4.1 Description of first aid measures

· General information:

Immediately remove contaminated clothing. If danger of loss of consciousness, place patient in recovery position and transport accordingly. Apply artificial respiration if necessary. First aid personnel should pay attention to their own safety.

• After inhalation: Keep patient calm, remove to fresh air, seek medical attention.

· After skin contact: Wash off with soap and plenty of water. Consult a physician.

• After eye contact:

Wash affected eyes for at least 15 minutes under running water with eyelids held open. If *irritation develops, seek medical attention.*

• After swallowing:

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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- **4.2 Most important symptoms and effects, both acute and delayed** Nausea, Vomiting, Weakness, Dizziness, Vertigo, Headache, Sweating, loss of appetite, Kidney injury may occur., Liver injury may occur.
- **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: dry powder, foam, carbon dioxide, water spray.
- **5.2 Special hazards arising from the substance or mixture** carbon monoxide, carbon dioxide, irritant gases/vapours
- 5.3 Advice for firefighters
- **Protective equipment:** Wear self-contained breathing apparatus and chemical-protective clothing.
- Additional information Cool endangered containers with water-spray. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

SECTION 6: Accidental release measures

 6.1 Personal precautions, protective equipment and emergency procedures Breathing protection required. Avoid contact with the skin, eyes and clothing.
 6.2 Environmental precautions:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

- 6.3 Methods and material for containment and cleaning up:
- For small amounts: Rinse away with water.

For large amounts: Dike spillage. Pump off product.

For residues: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Dispose of absorbed material in accordance with regulations. Cleaning operations should be carried out only while wearing breathing apparatus.

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.

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SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Observe label precautions. Ensure thorough ventilation of stores and work areas. Handle under dry inert gas.
- · Information about fire and explosion protection:

Vapours may form explosive mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

• **7.2** Conditions for safe storage, including any incompatibilities Avoid all sources of ignition: heat, sparks, open flame. Keep container tightly closed in a cool, well-ventilated place. Keep under nitrogen.

· Storage:

• Requirements to be met by storerooms and receptacles:

Keep container tightly closed in a dry and well ventilated place.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

- Information about storage in one common storage facility:
- Not required. Segregate from foods and animal feeds.
- Further information about storage conditions:
- Keep container tightly sealed
- Store in cool, dry conditions
- in well sealed receptacles.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

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

CAS: 123-91-1 1,4-dioxane

IOELV (EU) 73 mg/m³, 20 ppm

· DNELs

 DNELs for workers: Long-term - systemic effects: Dermal: 21 mg/kg bw/day Inhalation :73 mg/m³ Acute - local effects Inhalation : 144 mg/m³
 DNELs for the general population Long-term - systemic effects:

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Dermal : 12 mg/kg bw/day Inhalation : 18.25 mg/m³ Oral :0.24 mg/kg bw/day Acute - local effects Inhalation : 72 mg/m³ **PNECs PNECs** Predicted No Effect Concentration (PNEC) 1) PNEC water PNEC aqua (freshwater):10 mg/L PNEC aqua (marine water): 0.67 mg/L PNEC agua (intermittent releases): 10 mg/L 2) PNEC sediment PNEC sediment (freshwater):37 mg/kg sediment dw 3) PNEC soil PNEC soil: 0.153 mg/kg soil dw 4) PNEC sewage treatment plant PNEC STP: 2700 ma/L

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

· 8.2 Exposure controls

Personal protective equipment:

· General protective and hygienic measures:

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment. Avoid contact with the skin, eyes and clothing. Do not inhale gases/vapours/aerosols. Take off immediately all contaminated clothing. Store work clothing separately.

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Self-contained breathing apparatus. **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* Chemical resistant protective gloves (EN 374)

· Penetration time of glove material

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): Manufacturer's directions for use should be observed because of great diversity of types. butyl rubber (butyl) (Contd. on page 8)

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- 0.7 mm coating thickness

· Eye protection:



Tightly sealed goggles

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

• Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

SECTION 9: Physical and chemical properties		
9.1 Information on basic physical and ch	emical properties	
General Information		
_Appearance:	Liquid	
· Form:	Clear Liquid	
· Colour:	Colourless	
· Odour:	Ether-like	
• Change in condition		
Melting point/freezing point:	11.75 °C (at 1013 hPa)	
Initial boiling point and boiling range:	101.2 °C (at 1013 hPa)	
· Flash point:	11 °C (closed cup)	
· Flammability (solid, gas):	Not applicable.	
· Ignition temperature:	375 °C	
· Explosive properties:	Not explosive	
· Explosion limits: · Upper:		
Oxidising properties	The Substance is incapable of reacting exothermically with combustible materials on the basis of the chemical structure. The substance is highly flammable, therefore a test is not applicable.	
· Vapour pressure at 20 °C:	38.5 hPa	
· Density at 20 °C:	1.03 g/cm³	
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Solubility in / Miscibility with water at 20 °C:	1000 g/l
Partition coefficient: n-octanol/wat °C:	ter at 20 -0.42 log POW
Viscosity: Dynamic at 20 °C:	1.31 mPas
9.2 Other information	 Surface tension In accordance with column 2 of REACH Annex VII, the surface tension of the substance does not need to be tested because due to its chemical structure, no surface activity is predicted. Granulometry In accordance with column 2 of REACH Annex VII, the study does not need to be conducted viii, the study does not need to be conducted viii, the study does not need to be conducted
	as the substance is marketed or used in anon solid or granular form (1,4-dioxane is a liquid). 3) Dissociation constant In accordance with section 1 of REACH Annex XI, the dissociation constant study does no need to be performed because the substance does not contain any ionic structure

SECTION 10: Stability and reactivity

- · 10.1 Reactivity Vapours may form explosive mixture with air.
- 10.2 Chemical stability
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications. Evolution of explosive gases/vapours. May form explosive peroxides when exposed to air.
- 10.3 Possibility of hazardous reactions

Evolution of explosive gases/vapours. May form explosive peroxides when exposed to air.

- **10.4 Conditions to avoid** Avoid heat.
- · 10.5 Incompatible materials: strong oxidizing agents
- · 10.6 Hazardous decomposition products:

Evolution of explosive gases/vapours. carbon monoxide irritant gases/vapours

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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 ca. 5150 mg/kg bw (male/female) (rat) Inhalative LC0 (1 h) ca. 155 mg/L air (nominal) (rat(Sprague-Dawley)male/female) Primary irritant effect: · Skin corrosion/irritation Method: rabbit (Vienna White) Coverage: occlusive (shaved) **BASF** Test Before OECD Guideline 404 was established in 1982, skin irritation was tested using an internal method (BASF test). 2 white Vienna rabbits were treated for 1, 5 and 15 minutes and for 20 hours using occlusive conditions. Results: Ervthema score: 1 of max. 4 (mean (2 animals)) (Time point: 24-48-72 h) (not fully reversible within: 8 days) (desquamation, parchment-like necrosis) 1.34 of max. 4 (mean (2 animals)) (Time point: 24-48-72 h) (not fully reversible within: 8 days) (desguamation, parchment-like necrosis) Edema score: 0 of max. 4 (mean (2 animals)) (Time point: 24-48-72 h) (no effects) 0.84 of max. 4 (mean (2 animals)) (Time point: 24-48-72 h) (fully reversible within: 8 days) Inference : Not irritating Serious eye damage/irritation Causes serious eye irritation. Method: rabbit (Vienna White) equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion) Result : Cornea score: 1 of max. 2 (mean) (Time point: 24-72 h) (fully reversible) Conjunctivae score: 1 of max. 2 (mean) (Time point: 24 - 72 h) (not fully reversible within: 8 days) Chemosis score: 0.8 of max. 2 (mean) (Time point: 24 -72 h) (fully reversible) Inference : Irritating Respiratory or skin sensitisation Method : guinea pig (Dunkin-Hartley) female (Contd. on page 11)

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(Contd. of page 10) Guinea pig maximisation test Induction: intradermal and epicutaneous Challenge: epicutaneous, occlusive EU Method B.6 (Skin Sensitisation) Results: not sensitising No. with positive reactions: 1st reading: 0 out of 10 (test group); 24 h after chall.; dose: 100% 1st reading: 0 out of 5 (negative control); 24 h after chall.; dose: 0% 1st reading: 20 out of 20 (positive control); 24 h after chall.; dose: 1% - Additional toxicological information: Toxicokinetics, metabolism and distribution 1) Method : rat (Sprague-Dawley) male inhalation: vapour Exposure regime: once for 6 hr Doses/conc.: 50 ppm equivalent or similar to OECD Guideline 417 (Toxicokinetics) Results : Metabolites identified: yes Details on metabolites: The amounts of 1,4-dioxane and β -hydroxyethoxyacetic acid (HEAA) in urine during exposure (0-6 h) were 5.1 and 7613 μ g, respectively, and afterwards (6-48 h) 1.7 and 13659 µg, respectively. Hence, more than 99.9% of the total urinary excretion of the inhaled 1.4-dioxane was HEAA. 2) Method: rat (Sprague-Dawley) male oral: *aavaae* Exposure regime: single and repeated (17 daily doses) dosing Doses/conc.: single dosing: 10, 100 or 1000 mg/kg repeated dosing: 10 and 1000 mg/kg equivalent or similar to OECD Guideline 417 (Toxicokinetics) Results: Metabolites identified: yes Details on metabolites: β -hydroxyethoxyacetic acid (urine) CO2 (expired air) Repeated dose toxicity 1) Repeated Dose Toxicity : Oral Method : rat (Sherman) male/female combined repeated dose and carcinogenicity (oral: drinking water) 0.01, 0.1 or 1% (equal to 9.6, 94 or 1015 mg/kg bw/day for males and 19, 148 or 1599 mg/kg *bw/day for females) (actual ingested)* Exposure: 716 days (continuous) Results : (Contd. on page 12)

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NOAEL: 9.6 mg/kg bw/day (actual dose received) (male) (liver and kidney effects) NOAEL: 19 mg/kg bw/day (actual dose received) (female) (liver and kidney effects)

2) Repeated Dose Toxicity : Inhalation Method : rat (Wistar) male/female chronic (inhalation: vapour) (whole body) 0.4 mg/l (111 ppm) (SD = 0.018 mg/l (5 ppm)) (analytical conc.) Vehicle: unchanged (no vehicle) Exposure: 2 years (7 hours/day, 5 days/week) A lifetime 2-year study with rats, with a treated and a control group Results: NOAEC: > 400 mg/m³ air (male/female) (no adverse health effects were observed)

3) Repeated dose toxicity: dermal

In accordance with column 2 of REACH Annex IX, testing shall be performed using the most appropriate route of administration. No dermal repeated toxicity study is required as data for the oral and inhalation route are available (inhalation is the most likely route of human exposure for 1,4-dioxane).

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
 TDLo - Lowest published toxic dose : 32500 mg/kg bw (total dose)
 Sex:female
 Species:Rat

• Germ cell mutagenicity Based on available data, the classification criteria are not met.

· Carcinogenicity

May cause cancer.

• **Reproductive toxicity** Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation.

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 Information on other hazards

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 hazard*: No further information is available.

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· 12.1 Toxicity	
· Aquatic toxicity:	
EC50 (3 d)	1450 mg/l (Lactuca sativa)
EC50 (48 h)	> 1000 mg/L (Daphnia magna) (OECD Guideline 202)
EC50 (72 h) (static)	> 1000 mg/L (Pseudokirchneriella subcapitata) (OECD Guideline 201)
LC50 (21 d)	> 100 mg/L test mat. (nominal) (Oryzias latipes) (OECD Guideline 204)
LC50 (96 h) (static)	6700 mg/L test mat. (nominal) (Menidia beryllina) (Method by Dawson)
NOEC (21 d)	1000 mg/L (Daphnia magna) (OECD Guideline 211)
NOEC (32 d)	> 103 mg/L (Fish Pimephales promelas)
NOEC (72 h)	1000 mg/L (Pseudokirchneriella subcapitata) (OECD Guideline 201)
TTC (16 h) (static)	2700 mg/L (Pseudomonas putida)
OECD Guideline 30 Results : poorly biodegradable % Degradation of tes • 12.3 Bioaccumulati Bioconcentration Fac BCF: 0.45 (L/kg ww • 12.4 Mobility in soi Adsorption/desorptic Koc at 20°C: 1 • Additional ecologic • General notes:	1 F (Ready Biodegradability: Manometric Respirometry Test) st substance:< 10 after 29 d (O2 consumption) ive potential ctor: or dimensionless) I on cal information:

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SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation Must not be disposed together with household garbage.
- · Uncleaned packaging:
- Recommendation:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information		
· 14.1 UN-Number · ADR, IMDG, IATA	UN1165	
 14.2 UN proper shipping name ADR IMDG, IATA 	1165 DIOXANE DIOXANE	
· 14.3 Transport hazard class(es)		
· ADR, IMDG, IATA		
· Class	3 Flammable liquids.	
· Label	3	
· 14.4 Packing group · ADR, IMDG, IATA	11	
· 14.5 Environmental hazards:		
· Marine pollutant:	No	
 14.6 Special precautions for user Hazard identification number (Kemler 	Warning: Flammable liquids.	
code):	33	
EMS Number:	F-E,S-D	
· Stowage Category	В	
 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code 	Not applicable.	
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Transport/Additional information:	
ADR	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	<i>Maximum net quantity per outer packaging:</i> 500 ml
Transport category	2
Tunnel restriction code	D/E
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	<i>Maximum net quantity per outer packaging:</i> 500 ml
UN "Model Regulation":	UN 1165 DIOXANE, 3, II

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 Please refer section 2



Signal word Danger
Hazard statements
Please refer section 2
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H350 May cause cancer.
H335 May cause respiratory irritation.

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Trade name: 1,4-dioxane (Contd. of page 15) Precautionary statements Please refer section 2 · P201 Obtain special instructions before use. · P203 Obtain, read and follow all safety instructions before use. · P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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. if exposed or concerned, get medical advice. · P318 · P403+P233 Store in a well-ventilated place. Keep container tightly closed. · P405 Store locked up. Dispose of contents/container in accordance with local/regional/national/ · P501 international regulations. Chemical safety assessment The CSR has been completed Please refer to Annex I for risk management measures and exposure scenario. · Other regulations, limitations and prohibitive regulations · Substances of very high concern (SVHC) according to REACH. Article 57 1,4-Dioxane Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1272/2008 (REACH) because of carcinogenicity category 1B and therefore listed under article 57f · 15.2 Chemical safety assessment: The Chemical Safety Assessment has been completed.

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.

· Department issuing SDS: Product safety department.

· Contact:

Dr. Aditya Pattani Email: aditya.pattani@chemofarbe.com Ph: 022-25392453, 22010930 Fax:22010918

Abbreviations and acronyms:

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 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)

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(Contd. of page 16) 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 Verv High Concern vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Carc. 1B: Carcinogenicity - Category 1B STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 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 CHEMICAL SAFETY REPORT (CSR) CAS Number: 123-91-1 Data compared to the previous version altered. Section 1: Identification of the substance/preparation & of the company/undertaking. Section 3: Composition/Information on Ingredients Section 4: First-aid measures Section 5: First-fighting measures Section 6: Accidental release measures • Section 7: Handling and storage. Section 8: Exposure controls/Personal Protection. Section 9: Physical and Chemical properties. • Section 10: Stability and Reactivity. Section 11: Toxicology Information Section 12: Ecological Information Section 13: Disposable consideration Section14:Transport Information Section 15: Regulatory Information