

## SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

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

1.1 Product identifier

Product identifier : WB 879

Product name : Permahyd® Mixing Colour 280 BRILLIANT GOLD

Product type : Liquid.

Other means of

identification

: 4025331471813

Date of issue/ Date of

: 27 April 2024

revision

Version : 1.07

Date of previous issue : 25 January 2024

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

Identified uses : Coating component.

**Uses advised against**: Not for sale to or use by consumers.

1.3 Details of the supplier of the safety data sheet

Axalta Coating Systems Germany GmbH & Co. KG

Christbusch 25 DE 42285 Wuppertal +49 (0)202 529-0

e-mail address of person

: sds-competence@axalta.com

responsible for this SDS

1.4 Emergency telephone number

<u>Supplier</u>

**Telephone number** : +(44)-870-8200418

Hours of operation :

## SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to UK CLP/GHS

Eye Irrit. 2, H319

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

**Ingredients of unknown**: Contains 2.1% of components with unknown hazards to the aquatic environment

ecotoxicity

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Date of issue/Date of revision : 4/27/2024 Date of previous issue : 1/25/2024 Version : 1.07 1/15

## SECTION 2: Hazards identification

**Hazard pictograms** 

Signal word : Warning

**Hazard statements** : H319 - Causes serious eye irritation.

**Precautionary statements** 

**Prevention** : P280 - Wear eye or face protection.

: P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Response

Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.

: Not applicable. **Storage Disposal** : Not applicable. Supplemental label : Not applicable.

elements

: Not applicable.

**Annex XVII - Restrictions** on the manufacture, placing on the market and use of certain dangerous substances, mixtures and

articles

### 2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

: This mixture does not contain any substances that are assessed to be a PBT or a

vPvB.

Other hazards which do not result in classification : None known.

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

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Туре
2-butoxyethanol	REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Index: 603-014-00-0	≤7.1	Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1] [2]
butan-1-ol	REACH #: 01-2119484630-38 EC: 200-751-6 CAS: 71-36-3 Index: 603-004-00-6	≤2.8	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	[1] [2]
Aluminium powder (stabilized)	REACH #: 01-2119529243-45 EC: 231-072-3 CAS: 7429-90-5	≤3	Flam. Sol. 1, H228	[1] [2]
Naphtha (petroleum), hydrotreated heavy	REACH #: 01-2119463258-33 EC: 919-857-5 CAS: 64742-48-9	≤3	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 EUH066	[1]
2-dimethylaminoethanol	REACH #: 01-2119492298-24 EC: 203-542-8 CAS: 108-01-0 Index: 603-047-00-0	<1	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 3, H331 Skin Corr. 1B, H314	[1] [2]

Date of issue/Date of revision 2/15 : 4/27/2024 : 1/25/2024 Version : 1.07 Date of previous issue

Permahyd® Mixing Colour 280 BRILLIANT GOLD	
SECTION 3: Composition/info	rmation on ingredients
	Eye Dam. 1, H318 STOT SE 3, H335
	See Section 16 for the full text of the H statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

## **Type**

- [1] Substance classified with a physical, health or environmental hazard
- [2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

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

### 4.1 Description of first aid measures

**Eye contact**: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen

tight clothing such as a collar, tie, belt or waistband.

**Skin contact**: Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur. Wash clothing before reuse.

Clean shoes thoroughly before reuse.

**Ingestion**: Wash out mouth with water. Remove dentures if any. If material has been

swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such

as a collar, tie, belt or waistband.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It

may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

#### Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain or irritation

watering redness

Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

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

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

Date of issue/Date of revision : 4/27/2024 Date of previous issue : 1/25/2024 Version : 1.07 3/15

# **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Suitable extinguishing media

: Recommended: alcohol-resistant foam, CO2, powders, water spray.

Unsuitable extinguishing

: Do not use water jet.

media

## 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Hazardous combustion products

Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

## 5.3 Advice for firefighters

Special protective actions for fire-fighters

 Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

Special protective equipment for fire-fighters

: Appropriate breathing apparatus may be required.

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

Due to the organic solvents content of the mixture:

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

For non-emergency personnel

: Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.

For emergency responders:

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

# 6.2 Environmental precautions

: Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

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

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.

# 6.4 Reference to other sections

: See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

# **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

Due to the organic solvents content of the mixture:

Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits.

In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

Keep away from heat, sparks and flame. No sparking tools should be used.

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Put on appropriate personal protective equipment (see Section 8).

Date of issue/Date of revision : 4/27/2024 Date of previous issue : 1/25/2024 Version : 1.07 4/15

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

Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws.

### Information on fire and explosion protection

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

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

Store in accordance with local regulations.

## Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

## Additional information on storage conditions

Observe label precautions. Store between the following temperatures: 5 to 35°C (41 to 95°F). Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight.

Keep container tightly closed.

Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

## 7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

# SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

### Occupational exposure limits

Product/ingredient name	Exposure limit values
2-butoxyethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
•	through skin.
	STEL: 50 ppm 15 minutes.
	TWA: 25 ppm 8 hours.
	STEL: 246 mg/m³ 15 minutes.
	TWA: 123 mg/m³ 8 hours.
butan-1-ol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 154 mg/m³ 15 minutes.
	STEL: 50 ppm 15 minutes.
Aluminium powder (stabilized)	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	TWA: 4 mg/m <sup>3</sup> 8 hours. Form: respirable dust
	TWA: 10 mg/m³ 8 hours. Form: inhalable dust
2-dimethylaminoethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020).
•	STEL: 22 mg/m³ 15 minutes.
	STEL: 6 ppm 15 minutes.
	TWA: 2 ppm 8 hours.
	TWA: 7.4 mg/m³ 8 hours.

### **Biological exposure indices**

Product/ingredient name	Exposure indices
2-butoxyethanol	EH40/2005 BMGVs (United Kingdom (UK), 8/2018)
	BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine].
	Sampling time: post shift.

Recommended monitoring procedures

: Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

## **DNELs/DMELs**

Date of issue/Date of revision : 4/27/2024 Date of previous issue : 1/25/2024 Version : 1.07 5/15

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

Product/ingredient name	Туре	Exposure	Value	Population	Effects
2-butoxyethanol	DNEL	Long term	20 ppm	Workers	Systemic
		Inhalation			-,
	DNEL	Long term Oral	6.3 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term Oral	26.7 mg/	General	Systemic
	DNEI	l and tarm	kg bw/day	population	Cuatamia
	DNEL	Long term Inhalation	59 mg/m³	General population	Systemic
	DNEL	Long term	98 mg/m³	Workers	Systemic
	DIVLE	Inhalation	Joo mg/m	VVOINCIO	Cystornio
	DNEL	Short term	147 mg/m <sup>3</sup>	General	Local
		Inhalation		population	
	DNEL	Short term	246 mg/m <sup>3</sup>	Workers	Local
	DAIE	Inhalation	400 / 2		
	DNEL	Short term Inhalation	426 mg/m <sup>3</sup>	General	Systemic
	DNEL	Short term	1091 mg/	population Workers	Systemic
	DINEL	Inhalation	m <sup>3</sup>	VVOIKEIS	Systernic
butan-1-ol	DNEL	Long term Oral	1.5625 mg/	General	Systemic
		201.9 101 014	kg bw/day	population	, , , , , , , , , , , , , , , , , , , ,
	DNEL	Long term Dermal	3.125 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	55.357 mg/	General	Systemic
	DAIE	Inhalation	m <sup>3</sup>	population	
	DNEL	Long term	155 mg/m <sup>3</sup>	General	Local
	DNEL	Inhalation Long term	310 mg/m <sup>3</sup>	population Workers	Local
	DINLL	Inhalation	3 10 mg/m	WOIKEIS	Local
Aluminium powder (stabilized)	DNEL	Long term	3.72 mg/m <sup>3</sup>	Workers	Local
,		Inhalation	3		
	DNEL	Long term	3.72 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			
	DNEL	Long term Oral	3.95 mg/	General	Systemic
Nanhtha (natralaum) hydratraatad	DNEI	l and tarm	kg bw/day	population	Cyatamia
Naphtha (petroleum), hydrotreated heavy	DNEL	Long term Inhalation	272 ppm	Workers	Systemic
neavy	DNEL	Long term Dermal	300 mg/kg	Workers	Systemic
			bw/day		-,51515
	DNEL	Long term	0.41 mg/m³	General	Systemic
		Inhalation	_	population	
	DNEL	Long term	1.9 mg/m <sup>3</sup>	Workers	Systemic
	DAIE	Inhalation	470 57 /		
	DNEL	Long term	178.57 mg/ m³	General	Local
	DNEL	Inhalation Short term	640 mg/m <sup>3</sup>	population General	Local
	D. TLL	Inhalation	5 15 mg/m	population	
	DNEL	Long term	837.5 mg/	Workers	Local
		Inhalation	m³		
	DNEL	Short term	1066.67	Workers	Local
	D.V.=:	Inhalation	mg/m³	0	0
	DNEL	Short term	1152 mg/ m³	General	Systemic
	DNEL	Inhalation Short term	1286.4 mg/	population Workers	Systemic
	DIVLL	Inhalation	m <sup>3</sup>	TTORKOID	- Systemio
2-dimethylaminoethanol	DNEL	Short term Dermal	100 µg/cm²	Workers	Local
	DNEL	Long term Oral	0.148 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Dermal	0.25 mg/	Workers	Systemic
	ראבי	Long torm	kg bw/day	Coporal	Systemia
	DNEL	Long term Inhalation	0.43755 mg/m³	General population	Systemic
	DNEL	Short term Dermal	1.2 mg/kg	Workers	Systemic
				<u>-</u>	,

Date of issue/Date of revision : 4/27/2024 Date of previous issue : 1/25/2024 Version : 1.07 6/15

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

			bw/day		
D	DNEL	Long term	1.76 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
D	DNEL	Long term	1.76 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			
D	DNEL	Short term	5.28 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			-
D	DNEL	Short term	13.53 mg/	Workers	Local
		Inhalation	m³		

### **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
2-butoxyethanol	Sewage Treatment Plant	463 mg/l	-
	Soil	2.33 mg/kg	-
	Marine water sediment	3.46 mg/kg	-
	Marine water	0.88 mg/l	-
	Fresh water	8.8 mg/l	-
	Fresh water sediment	34.6 mg/kg	-
butan-1-ol	Fresh water	0.082 mg/l	-
	Marine water	0.0082 mg/l	-
	Fresh water sediment	0.324 mg/kg dwt	-
	Marine water sediment	0.0324 mg/kg dwt	-
	Soil	0.017 mg/kg dwt	-
	Sewage Treatment Plant	2476 mg/l	-
Aluminium powder (stabilized)	Fresh water	0.0749 mg/l	-
	Sewage Treatment Plant	20 mg/l	-
2-dimethylaminoethanol	Fresh water	0.066 mg/l	-
-	Marine water	0.007 mg/l	-
	Soil	0.01 mg/kg	-
	Sewage Treatment Plant	10 mg/l	-

## 8.2 Exposure controls

Appropriate engineering controls

: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

### **Individual protection measures**

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Use safety eyewear designed to protect against splash of liquids.

### **Skin protection**

## Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

Date of issue/Date of revision : 4/27/2024 Date of previous issue : 1/25/2024 Version : 1.07 7/15

# SECTION 8: Exposure controls/personal protection

Gloves

Duration / breakthrough time: <1 hour.

Glove material: NBR, nitrile rubber, material thickness as splash protection: at least

0.2 mm, (EN374)

Glove material: NBR, nitrile rubber Material thickness for short-term contact: at least

0.5 mm, (EN374)

The recommendation for the type or types of glove to use when handling this

product is based on information from the following source:

Expert judgment

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of

use, as included in the user's risk assessment.

**Body protection** : Personnel should wear antistatic clothing made of natural fibres or of high-

temperature-resistant synthetic fibres.

Other skin protection : Appropriate footwear and any additional skin protection measures should be

selected based on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

Respiratory protection If workers are exposed to concentrations above the exposure limit, they must use

appropriate, certified respirators.

Dry sanding, flame cutting and/or welding of the dry paint film will give rise to dust and/or hazardous fumes. Wet sanding/flatting should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable

respiratory protective equipment should be used.

**Environmental exposure** 

controls

: Do not allow to enter drains or watercourses.

# SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state : Liquid. Colour : Gold.

: Not available. Odour : Not available. Odour threshold

Melting point/freezing point

Initial boiling point and

boiling range

: Technically not possible to measure

: 100 to 173°C (212 to 343.4°F)

Flammability (solid, gas) Upper/lower flammability or

explosive limits

: Not available. Lower: 1.1%

Upper: 10.6%

Not available.

Flash point : Closed cup: 54°C (129.2°F) [Product does not sustain combustion.]

**Auto-ignition temperature** 230°C (446°F) **Decomposition temperature** : Not applicable.

рH : 7.2 to 8

Viscosity Dynamic: >120 mPa·s

Kinematic: >118 mm<sup>2</sup>/s

Solubility in water : Not available.

Miscible with water Yes

Partition coefficient: n-octanol/ : Not applicable.

water

: 1.7 kPa (13 mm Hg) Vapour pressure Relative density : Not available.

Date of issue/Date of revision : 4/27/2024 : 1/25/2024 Version : 1.07 8/15 Date of previous issue

## SECTION 9: Physical and chemical properties

Density : 1.019 g/cm³
Vapour density : Not available.

Explosive properties : Not available.

Oxidising properties : Not available.

Weight volatiles : 82.3 % (w/w)

**VOC content** : 11.6 % (w/w) (2010/75/EU)

#### 9.2 Other information

### 9.2.1 Information with regard to physical hazard classes

Further information Not available.

## 9.2.2 Other safety characteristics

Miscible with water : Yes.

Further information Not available.

room temperature (=20°C)

# **SECTION 10: Stability and reactivity**

**10.1 Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability** : Stable under recommended storage and handling conditions (see Section 7).

10.3 Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4 Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition

products.

**10.5 Incompatible materials**: Keep away from the following materials to prevent strong exothermic reactions:

oxidising agents, strong alkalis, strong acids.

10.6 Hazardous decomposition products

: Decomposition products may include the following materials: carbon monoxide,

carbon dioxide, smoke, oxides of nitrogen.

Not applicable

# **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Date of issue/Date of revision : 4/27/2024 Date of previous issue : 1/25/2024 Version : 1.07 9/15

# **SECTION 11: Toxicological information**

## **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
2-butoxyethanol	LD50 Dermal	Rat	2010 mg/kg	-
	LD50 Oral	Rat	917 mg/kg	-
butan-1-ol	LC50 Inhalation Vapour	Rat	24000 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	790 mg/kg	-
Naphtha (petroleum), hydrotreated heavy	LD50 Oral	Rat	>6 g/kg	-
2-dimethylaminoethanol	LC50 Inhalation Gas. LD50 Oral	Rat Rat	1641 ppm 2 g/kg	4 hours

## **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
mixture	11928.1	N/A	454418.3	175.7	N/A
2-butoxyethanol	1200	2010	N/A	11	N/A
butan-1-ol	790	3400	N/A	24	N/A
2-dimethylaminoethanol	2000	1100	1641	N/A	N/A

## Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Skin - Mild irritant	Rabbit	-	500 mg	-
butan-1-ol	Eyes - Cornea opacity	Rabbit	2.11	-	7 days
	Eyes - Severe irritant	Rabbit	-	0.005 MI	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
2-dimethylaminoethanol	Eyes - Oedema of the	Rabbit	3	-	-
	conjunctivae				
	Eyes - Severe irritant	Rabbit	-	5 uL	-
	Skin - Mild irritant	Rabbit	-	445 mg	-

**Sensitisation** 

**Mutagenicity** 

**Carcinogenicity** 

**Reproductive toxicity** 

**Teratogenicity** 

## Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
butan-1-ol  Naphtha (petroleum), hydrotreated heavy 2-dimethylaminoethanol	Category 3 Category 3 Category 3 Category 3	-	Respiratory tract irritation Narcotic effects Narcotic effects Respiratory tract irritation

## Specific target organ toxicity (repeated exposure)

Not available.

## **Aspiration hazard**

Date of issue/Date of revision : 4/27/2024 Date of previous issue : 1/25/2024 Version : 1.07 10/15

## **SECTION 11: Toxicological information**

Product/ingredient name	Result
Naphtha (petroleum), hydrotreated heavy	ASPIRATION HAZARD - Category 1

Information on likely routes

: Not available.

of exposure

Potential acute health effects

**Eye contact**: Causes serious eye irritation.

Inhalation : No known significant effects or critical hazards.
 Skin contact : No known significant effects or critical hazards.
 Ingestion : No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact**: Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate

effects

: Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

**Conclusion/Summary**: Not available.

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : No known significant effects or critical hazards.

Other information : Not available.

# SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
2-butoxyethanol	Acute EC50 >1000 mg/l Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	Acute LC50 800000 μg/l Marine water	Crustaceans - Common shrimp, sand shrimp - Crangon crangon	48 hours
	Acute LC50 1250 ppm Marine water	Fish - Inland silverside -  Menidia beryllina	96 hours
butan-1-ol	Acute EC50 1983 mg/l Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	Acute LC50 1730000 μg/l Fresh water	Fish - Fathead minnow -	96 hours

Date of issue/Date of revision : 4/27/2024 Date of previous issue : 1/25/2024 Version : 1.07 11/15

# SECTION 12: Ecological information

		Pimephales promelas	
2-dimethylaminoethanol	Acute EC50 98.37 mg/l	Daphnia	48 hours
-	Acute LC50 146.63 mg/l Fresh water	Fish	96 hours

: Not available. Conclusion/Summary

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
2-dimethylaminoethanol	OECD 302C Inherent Biodegradability: Modified MITI Test (II)	60.5 % - Readily - 28 days	-	-

: Not available. **Conclusion/Summary** 

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Naphtha (petroleum), hydrotreated heavy	-	-	Readily
2-dimethylaminoethanol	-	-	Readily

## 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-butoxyethanol	0.81	-	Low
butan-1-ol	1	-	Low
Naphtha (petroleum),	-	10 to 2500	High
hydrotreated heavy			
2-dimethylaminoethanol	-0.55	-	Low

### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

## 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects : No known significant effects or critical hazards.

# SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

## 13.1 Waste treatment methods

## **Product**

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste

: The classification of the product may meet the criteria for a hazardous waste.

**Packaging** 

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Date of previous issue Date of issue/Date of revision : 4/27/2024 : 1/25/2024 Version : 1.07 12/15

## **SECTION 13: Disposal considerations**

Type of packaging	Waste catalogue	
	15 01 10*	packaging containing residues of or contaminated by hazardous substances

Special precautions

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments

: Not available.

## SECTION 15: Regulatory information

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture UK (GB)/REACH

## Annex XIV - List of substances subject to authorisation

## **Annex XIV**

None of the components are listed.

### Substances of very high concern

None of the components are listed.

**Annex XVII - Restrictions** on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable.

## **Seveso Directive**

This product is not controlled under the Seveso Directive.

### **National regulations**

Product/ingredient name	List name	Name on list	Classification	Notes

Date of issue/Date of revision : 4/27/2024 : 1/25/2024 Version: 1.07 13/15 Date of previous issue

# **SECTION 15: Regulatory information**

## **International regulations**

## Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

## **Montreal Protocol**

Not listed.

### **Stockholm Convention on Persistent Organic Pollutants**

Not listed.

15.2 Chemical safety

: This product contains substances for which Chemical Safety Assessments are still required.

assessment

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# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

**Abbreviations and** 

acronyms

: ATE = Acute Toxicity Estimate

GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and

Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019

No. 720 and amendments

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = GB CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

## Procedure used to derive the classification

Classification	Justification
Eye Irrit. 2, H319	Calculation method

## Full text of abbreviated H statements

H226	Flammable liquid and vapour.
H228	Flammable solid.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

## **Full text of classifications**

Acute Tox. 3	ACUTE TOXICITY - Category 3	
Acute Tox. 4	ACUTE TOXICITY - Category 4	
Asp. Tox. 1	ASPIRATION HAZARD - Category 1	
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1	
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2	
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3	
Flam. Sol. 1	FLAMMABLE SOLIDS - Category 1	
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B	
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2	
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3	
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Date of issue/Date of revision : 4/27/2024 Date of previous issue : 1/25/2024 Version : 1.07 14/15

## **SECTION 16: Other information**

Date of issue/ Date of

: 4/27/2024

revision

Version : 1.07

Date of previous issue : 1/25/2024

### **Notice to reader**

This product is intended for industrial use only.

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Date of issue/Date of revision : 4/27/2024 Date of previous issue : 1/25/2024 Version : 1.07 15/15