# **AkzoNobel**

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

# SAFETY DATA SHEET

FR2-55 MATT 4-6GU TUK BLACK FS 37038

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

1.1 Product identifier

Product name : FR2-55 MATT 4-6GU TUK BLACK FS 37038

**SDS code** : 557Z7038K

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

Identified uses

Paint. Professional use Industrial use

Uses advised against

All other uses

**Product use** : Waterborne coating for interior use.

#### 1.3 Details of the supplier of the safety data sheet

MAPAERO SAS 10, Avenue de la Rijole CS30098 09103 PAMIERS Cedex

France

e-mail address of person

: PSRA PAMIERS@akzonobel.com

responsible for this SDS

### 1.4 Emergency telephone number

## National advisory body/Poison Center

**Telephone number** : +44 (0)344 892 0111

**Supplier** 

**Telephone number** : +33 (0)5 34 01 34 01

+33 (0)5 61 60 23 30

Hours of operation :

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

Product definition : Mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226 Skin Sens. 1, H317

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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 : 30-9-2022 Version : 1

Date of previous issue : No previous validation 1/21 AkzoNobel

## **SECTION 2: Hazards identification**

**Hazard pictograms** 





Signal word : Warning

**Hazard statements**: Flammable liquid and vapor.

May cause an allergic skin reaction.

**Precautionary statements** 

Prevention : Wear protective gloves. Keep away from heat, hot surfaces, sparks, open flames

and other ignition sources. No smoking. Avoid breathing vapor.

Response : Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with

plenty of water. If skin irritation or rash occurs: Get medical advice or attention.

**Storage**: Store in a well-ventilated place. Keep cool.

Disposal : Dispose of contents and container in accordance with all local, regional, national

and international regulations.

**Hazardous ingredients**: Polyisocyanate, aliphatic

C(M)IT/MIT(3:1)

: Not applicable.

Supplemental label

elements

: Contains isocyanates. May produce an allergic reaction.

Annex XVII - Restrictions on the manufacture, placing on the market and

placing on the market and use of certain dangerous substances, mixtures and

articles

Special packaging requirements

Containers to be fitted with child-resistant

fastenings

: Not applicable.

Tactile warning of danger : Not applicable.

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	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tris(6-isocyanatohexyl) -, reaction products with polyethylene glycol monomethyl ether	CAS: 129217-88-5	≤10	Aquatic Chronic 3, H412	[1]
2-ethoxy-1-methylethyl acetate	EC: 259-370-9 CAS: 54839-24-6 Index: 603-177-00-8	≤10	Flam. Liq. 3, H226 STOT SE 3, H336	[1]
Polyisocyanate, aliphatic 2-butoxyethanol	- REACH #:	≤3 <1	Skin Sens. 1, H317 Acute Tox. 4, H302	[1] [1] [2]

Date of issue/Date of revision : 30-9-2022 Version : 1

Date of previous issue : No previous validation 2/21 AkzoNobel

#### SECTION 3: Composition/information on ingredients 01-2119475108-36 Acute Tox. 4. H312 EC: 203-905-0 Acute Tox. 4. H332 CAS: 111-76-2 Skin Irrit. 2, H315 Index: 603-014-00-0 Eye Irrit. 2, H319 [1] [2] 4-isocyanatosulphonyltoluene EC: 223-810-8 ≤0.3 Skin Irrit. 2, H315 CAS: 4083-64-1 Eye Irrit. 2, H319 Index: 615-012-00-7 Resp. Sens. 1, H334 **STOT SE 3, H335 EUH014** [1] C(M)IT/MIT(3:1)REACH #: ≤0.001 Acute Tox. 3, H301 01-2120764691-48 Acute Tox. 2, H310 CAS: 55965-84-9 Acute Tox. 2, H330 Skin Corr. 1C, H314 Index: 613-167-00-5 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100)Aquatic Chronic 1. H410 (M=100) **EUH071** 1,4-dioxane EC: 204-661-8 < 0.1 Flam. Liq. 2, H225 [1] [2] CAS: 123-91-1 Eye Irrit. 2, H319 Index: 603-024-00-5 Carc. 1B, H350 **STOT SE 3, H335 EUH019 EUH066** [1] [2] EC: 200-849-9 < 0.1 Flam. Gas 1A, H220 ethylene oxide Press. Gas (Comp.), CAS: 75-21-8 Index: 603-023-00-X H280 Acute Tox. 3, H301 Acute Tox. 3, H331 Skin Corr. 1, H314 Muta. 1B, H340 Carc. 1B, H350 Repr. 1B, H360Fd **STOT SE 3, H335 STOT SE 3, H336 STOT RE 1, H372** (nervous system) [1] [2] EC: 231-635-3 < 0.1 Flam. Gas 2, H221 ammonia, anhydrous Press. Gas (Comp.), CAS: 7664-41-7 H280 Index: 007-001-00-5 Acute Tox. 3, H331 Skin Corr. 1B, H314 Aquatic Acute 1, H400 (M=1)≤0.1 Flam. Liq. 3, H226 [1] [2] chlorobenzene REACH #: Acute Tox. 4, H332 01-2119432722-45 Skin Irrit. 2, H315 EC: 203-628-5 CAS: 108-90-7 Aquatic Chronic 2, Index: 602-033-00-1 H411 See Section 16 for the full text of the H statements declared

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.

above.

<u>Type</u>

Date of issue/Date of revision: 30-9-2022Version: 1Date of previous issue: No previous validation3/21AkzoNobel

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

FR2-55 MATT 4-6GU TUK BLACK FS 37038

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

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

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 if irritation occurs.

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

: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

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 vapor 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.

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

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. 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.

Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability.

Date of issue/Date of revision : 30-9-2022 Version : 1

Date of previous issue : No previous validation 4/21 AkzoNobel

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

Repeated or prolonged contact with irritants may cause dermatitis.

Contains Polyisocyanate, aliphatic, 4-isocyanatosulphonyltoluene, C(M)IT/MIT(3:1). May produce an allergic reaction.

#### Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

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

irritation redness

**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.

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Suitable extinguishing

media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet.

### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with

the risk of a subsequent explosion.

**Hazardous combustion** 

products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides

## 5.3 Advice for firefighters

Special protective actions

for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk.

Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for

chemical incidents.

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

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

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is

Date of issue/Date of revision : 30-9-2022 Version : 1

Date of previous issue : No previous validation 5/21 AkzoNobel

inadequate. Put on appropriate personal protective equipment.

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

For emergency responders: If specialized 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

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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

### Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

### Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

### 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

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

## Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Seveso Directive - Reporting thresholds

Version: 1 Date of issue/Date of revision : 30-9-2022 **AkzoNobel** Date of previous issue : No previous validation 6/21

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

FR2-55 MATT 4-6GU TUK BLACK FS 37038

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

#### **Danger criteria**

	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 tonne

## 7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

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

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

## 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.
4-isocyanatosulphonyltoluene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Inhalation
	sensitizer.
	STEL: 0.07 mg/m³, (as -NCO) 15 minutes.
A A Passage	TWA: 0.02 mg/m³, (as -NCO) 8 hours.
1,4-dioxane	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	TWA: 73 mg/m³ 8 hours. TWA: 20 ppm 8 hours.
athylana ayida	• •
ethylene oxide	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin.
	TWA: 1 ppm 8 hours.
	TWA: 1 ppm 6 hours.
ammonia, anhydrous	EH40/2005 WELs (United Kingdom (UK), 1/2020).
armioma, armyarodo	STEL: 25 mg/m³ 15 minutes. Form: anhydrous
	STEL: 35 ppm 15 minutes. Form: anhydrous
	TWA: 18 mg/m³ 8 hours. Form: anhydrous
	TWA: 25 ppm 8 hours. Form: anhydrous
chlorobenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 3 ppm 15 minutes.
	TWA: 1 ppm 8 hours.
	TWA: 4.7 mg/m³ 8 hours.
	STEL: 14 mg/m³ 15 minutes.

# Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment

Date of issue/Date of revision : 30-9-2022 Version : 1

 Date of previous issue
 : No previous validation
 7/21

 AkzoNobel

of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

## **DNELs/DMELs**

Product/ingredient name	Type	Exposure	Value	Population	Effects
2-ethoxy-1-methylethyl acetate	DNEL	Long term Oral	13.1 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Dermal	62 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	103 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	181 mg/m³	General	Systemic
	D. 151	Inhalation		population	
	DNEL	Long term	302 mg/m <sup>3</sup>	Workers	Systemic
	DAIE	Inhalation	005	0	0
	DNEL	Short term	365 mg/m <sup>3</sup>	General	Systemic
	DNE	Inhalation	COO/3	population	Cyatamia
	DNEL	Short term	608 mg/m <sup>3</sup>	Workers	Systemic
O hoston with a mal	DNE	Inhalation	0.0	0	0 :-
2-butoxyethanol	DNEL	Long term Oral	6.3 mg/kg	General	Systemic
	DNE	Charttanna Oral	bw/day	population	Cychoneia
	DNEL	Short term Oral	26.7 mg/	General	Systemic
	DNE	L am at tames	kg bw/day	population	Cychoneia
	DNEL	Long term	59 mg/m³	General	Systemic
	DNE	Inhalation	75//	population	0 :-
	DNEL	Long term Dermal	75 mg/kg	General	Systemic
	DNE	Ob	bw/day	population	0 :-
	DNEL	Short term Dermal	89 mg/kg	General	Systemic
	DNE	Charttanna Damaal	bw/day	population	Cychamaia
	DNEL	Short term Dermal	89 mg/kg	Workers	Systemic
	DNEL	Long term	bw/day 98 mg/m³	Workers	Systemic
	DINEL	Inhalation	96 mg/m	VVOIKEIS	Systernic
	DNEL	Long term Dermal	125 mg/kg	Workers	Systemic
	DINEL	Long term Dermai	bw/day	WOIKEIS	Systemic
	DNEL	Short term	147 mg/m <sup>3</sup>	General	Local
	DIVLL	Inhalation	147 1119/111	population	Local
	DNEL	Short term	246 mg/m³	Workers	Local
	DIVLL	Inhalation	240 mg/m	WORKOIS	Local
	DNEL	Short term	426 mg/m³	General	Systemic
	DIVLL	Inhalation	420 mg/m	population	Oysterino
	DNEL	Short term	1091 mg/	Workers	Systemic
	101122	Inhalation	m <sup>3</sup>	Workoro	- Cyclonnic
4-isocyanatosulphonyltoluene	DNEL	Long term Oral	0.46 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Dermal	0.46 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	0.8 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	0.92 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Long term	3.24 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation	1		
1,4-dioxane	DNEL	Long term Oral	0.24 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Dermal	12 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	18.25 mg/	General	Systemic
			l		1 -

Date of issue/Date of revision

Date of previous issue

: 30-9-2022

: No previous validation

Version : 1

8/21

SECTION 6. Expo	sure controls/p	ersonal prote	Ction		
		Inhalation	m³	population	
	DNEL	Long term Dermal	21 mg/kg bw/day	Workers	Systemic
	DNEL	Short term	72 mg/m <sup>3</sup>	General	Local
		Inhalation	,	population	
	DNEL	Long term Inhalation	73 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	144 mg/m³	Workers	Local
ammonia, anhydrous	DNEL	Long term	2.8 mg/m <sup>3</sup>	General	Local
	DNEL	Inhalation Short term Oral	C 0 mm m/l/m	population	Cuatamia
	DINEL	Short term Oral	6.8 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	6.8 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	6.8 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	6.8 mg/kg bw/day	Workers	Systemic
	DNEL	Short term	7.2 mg/m <sup>3</sup>	General	Local
	DATE	Inhalation	44 / 3	population	
	DNEL	Long term Inhalation	14 mg/m³	Workers	Local
	DNEL	Short term Inhalation	16 mg/m³	Workers	Local
	DNEL	Short term Inhalation	23.8 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term	23.8 mg/m <sup>3</sup>		Systemic
	DIVLE	Inhalation	20.0 mg/m	population	Oysternio
	DNEL	Short term	47.6 mg/m <sup>3</sup>		Systemic
	DNLL	Inhalation	17.0 1119/111	Workoro	Cyclonic
	DNEL	Long term Inhalation	47.6 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Dermal	68 mg/kg	General	Systemic
	DIVLE	Chort term berman	bw/day	population	Oystoniio
	DNEL	Long term Dermal	68 mg/kg	General	Systemic
chlorobenzene	DNEL	Short term	bw/day	population General	Systemic
CHIOLODGHZGHG	DINEL	Inhalation	1 mg/m³	population	Systemic
	DNEL	Long term	1 mg/m³	General	Systemic
	DIVEE	Inhalation	g/	population	- 30.011110
	DNEL	Short term Oral	3 mg/kg	General	Systemic
			bw/day	population	<i>y</i> · · · · · ·
	DNEL	Long term Oral	3 mg/kg	General	Systemic
	DNEL	Short term Dermal	bw/day 3 mg/kg	population General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	3 mg/kg	General	Systemic
	DAIE:	l am m As area D	bw/day	population	0
	DNEL	Long term Dermal	5 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	15 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	23 mg/m³	Workers	Systemic
	DNEL	Short term	70 mg/m³	Workers	Systemic
	DIVLE	Inhalation	. 59,		2,0.0.1110

## **PNECs**

No PNECs available.

Date of issue/Date of revision: 30-9-2022Version: 1Date of previous issue: No previous validation9/21AkzoNobel

#### 8.2 Exposure controls

# Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

#### 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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

#### **Skin protection**

## **Hand protection**

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time >480 minutes according to EN374) is recommended. Recommended gloves: Viton 0 or Nitrile, thickness 2 0.38 mm. When only brief contact is expected, a glove with protection class of 2 or higher (breakthrough time >30 minutes according to EN374) is recommended. Recommended gloves: Nitrile, thickness 2 0.12 mm.

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

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

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**

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

#### 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

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Date of issue/Date of revision

: 30-9-2022

Version : 1

Date of previous issue : No previous validation

10/21

**AkzoNobel** 

**Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state : Liquid. Color : Black.

Odor : Characteristic. : Not available. **Odor threshold** рH : Not available. Melting point/freezing point : Not available. Initial boiling point and : Not available.

boiling range

Flash point : Closed cup: 59°C **Evaporation rate** Not available. Flammability (solid, gas) : Not available. Upper/lower flammability or : Not available.

explosive limits

Vapor pressure : Not available.

Vapor density : Highest known value: >1 (Air = 1) (Oxirane, 2-methyl-, polymer with oxirane,

monobutyl ether). Weighted average: 1.17 (Air = 1)

Density

: Insoluble in the following materials: cold water. Solubility(ies)

Partition coefficient: n-octanol/ : Not available.

water

**Auto-ignition temperature** : Not available. **Decomposition temperature** : Not available.

: Kinematic (room temperature): 0.78 cm<sup>2</sup>/s **Viscosity** 

Kinematic (40°C): 1.01 cm<sup>2</sup>/s

# SECTION 10: Stability and reactivity

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

10.2 Chemical stability : The product is stable.

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

10.4 Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld,

braze, solder, drill, grind or expose containers to heat or sources of ignition.

10.5 Incompatible materials : Reactive or incompatible with the following materials:

oxidizing materials

10.6 Hazardous

decomposition products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

: 30-9-2022 Date of issue/Date of revision Version : 1

**AkzoNobel** Date of previous issue : No previous validation 11/21

# **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

## **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
2-butoxyethanol	LC50 Inhalation Gas.	Mouse	700 ppm	7 hours
•	LC50 Inhalation Gas.	Rat	450 ppm	4 hours
	LC50 Inhalation Vapor	Mouse	3380 mg/m <sup>3</sup>	7 hours
	LC50 Inhalation Vapor	Rat	2900 mg/m <sup>3</sup>	7 hours
	LD50 Dermal	Guinea pig	230 uL/kg	_
	LD50 Dermal	Rabbit	220 mg/kg	_
	LD50 Intraperitoneal	Mouse	536 mg/kg	_
	LD50 Intraperitoneal	Rabbit	220 mg/kg	_
	LD50 Intraperitoneal	Rat	220 mg/kg	_
	LD50 Intravenous	Mouse	1130 mg/kg	_
	LD50 Intravenous	Rabbit	252 mg/kg	_
	LD50 Intravenous	Rat	307 mg/kg	_
	LD50 Oral	Guinea pig	1200 mg/kg	_
	LD50 Oral	Mouse	1230 mg/kg	_
	LD50 Oral	Mouse	1167 mg/kg	_
	LD50 Oral	Rabbit	300 mg/kg	_
	LD50 Oral	Rabbit	320 mg/kg	_
	LD50 Oral	Rat	917 mg/kg	_
	LD50 Oral	Rat	250 mg/kg	
	LD50 Route of exposure	Mouse	1050 mg/kg	
	unreported	Modse	1030 mg/kg	_
	LD50 Route of exposure	Rat	917 mg/kg	
	unreported	Nat	917 mg/kg	_
4 iggavangtagulahanyltaluana	LD50 Intraperitoneal	Rat	775 mg/kg	
4-isocyanatosulphonyltoluene	LD50 Oral	Rat	775 mg/kg	_
1.4 diayana			2234 mg/kg	2 hours
1,4-dioxane	LC50 Inhalation Vapor	Mouse	37 g/m <sup>3</sup>	
	LC50 Inhalation Vapor	Rat	46 g/m³	2 hours
	LD50 Dermal	Rabbit	7600 uL/kg	-
	LD50 Intraperitoneal	Mouse	790 mg/kg	-
	LD50 Intraperitoneal	Rat	799 mg/kg	-
	LD50 Oral	Guinea pig	3150 mg/kg	-
	LD50 Oral	Mouse	5300 mg/kg	-
	LD50 Oral	Rabbit	2 g/kg	-
.41.1	LD50 Oral	Rat	4200 mg/kg	-
ethylene oxide	LC50 Inhalation Gas.	Mouse	835 ppm	4 hours
	LC50 Inhalation Gas.	Rat	800 ppm	4 hours
	LC50 Inhalation Gas.	Rat	1460 ppm	4 hours
	LC50 Inhalation Vapor	Guinea pig	1500 mg/m³	4 hours
	LD50 Intraperitoneal	Mouse	175 mg/kg	-
	LD50 Intravenous	Mouse	290 mg/kg	-
	LD50 Oral	Guinea pig	270 mg/kg	-
	LD50 Oral	Rat	72 mg/kg	-
	LD50 Subcutaneous	Rat	187 mg/kg	-
ammonia, anhydrous	LC50 Inhalation Gas.	Mouse	4230 ppm	1 hours
	LC50 Inhalation Gas.	Mouse	4500 ppm	1 hours
	LC50 Inhalation Gas.	Mouse	21430 ppm	30 minutes
	LC50 Inhalation Gas.	Rat	9500 ppm	1 hours
	LC50 Inhalation Gas.	Rat	17401 ppm	15 minutes
	LC50 Inhalation Gas.	Rat	2000 ppm	4 hours
	LC50 Inhalation Vapor	Mouse	4600 mg/m <sup>3</sup>	2 hours
	LC50 Inhalation Vapor	Rabbit	7 g/m³	1 hours
	LC50 Inhalation Vapor	Rat	7040 mg/m³	30 minutes
	LC50 Inhalation Vapor	Rat	4673 mg/kg	4 hours
	LC50 Inhalation Vapor	Rat	4673 mg/kg	4 hours
	LC50 Inhalation Vapor	Rat	18600 mg/m <sup>3</sup>	5 minutes
chlorobenzene	LC50 Inhalation Gas.	Mouse	4300 ppm	2 hours
	LC50 Inhalation Gas.	Mouse	1886 ppm	6 hours
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Date of issue/Date of revision : 30-9-2022 Version 12/21

Date of previous issue : No previous validation **AkzoNobel** 

# **SECTION 11: Toxicological information**

**Conclusion/Summary** 

: Not available.

## **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
•	-			mg	
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	_	500 mg	-
4-isocyanatosulphonyltoluene	Eyes - Moderate irritant	Rabbit	-	100 Ul	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				UI	
1,4-dioxane	Eyes - Moderate irritant	Guinea pig	_	10 ug	-
·	Eyes - Moderate irritant	Rabbit	_	24 hours 100	-
				mg	
	Eyes - Severe irritant	Rabbit	_	100 mg	-
	Skin - Mild irritant	Rabbit	_	515 mg	-
ethylene oxide	Eyes - Moderate irritant	Rabbit	_	6 hours 18	-
•	•			mg	

Conclusion/Summary

: Not available.

**Sensitization** 

**Conclusion/Summary** 

: Not available.

### **Mutagenicity**

Product/ingredient name	Test	Experiment	Result
ethylene oxide	-	Subject: Mammalian-Animal	Positive

**Conclusion/Summary** 

: Not available.

**Carcinogenicity** 

Conclusion/Summary

: Not available.

Reproductive toxicity

Conclusion/Summary

: Not available.

**Teratogenicity** 

**Conclusion/Summary**: Not available.

## Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
2-ethoxy-1-methylethyl acetate 4-isocyanatosulphonyltoluene	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation

## Specific target organ toxicity (repeated exposure)

Date of issue/Date of revision: 30-9-2022Version: 1

Date of previous issue : No previous validation 13/21 AkzoNobel

## **SECTION 11: Toxicological information**

Not available.

#### **Aspiration hazard**

Not available.

Information on the likely

: Not available.

routes of exposure

Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

**Skin contact**: May cause an allergic skin reaction.

**Ingestion**: No known significant effects or critical hazards.

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

Eye contact : No specific data.

Inhalation : No specific data.

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

irritation redness

**Ingestion**: No specific data.

## Delayed and immediate effects and also 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

: Not available.

effects

Potential delayed effects : Not available.

#### Potential chronic health effects

Not available.

**Conclusion/Summary**: Not available.

General: Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

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

There are no data available on the mixture itself.

Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is not classified as hazardous to the environment, but contains substance(s) hazardous to the environment. See section 3 for details.

Date of issue/Date of revision : 30-9-2022 Version : 1

Date of previous issue : No previous validation 14/21 AkzoNobel

# **SECTION 12: Ecological information**

Product/ingredient name	Result	Species	Exposure
2-butoxyethanol	Acute EC50 >1000 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
-	Acute LC50 800000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 1490000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 1250000 µg/l Marine water	Fish - Menidia beryllina	96 hours
1,4-dioxane	Acute LC50 1.5 mg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	
	Acute LC50 10800000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 9850000 μg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 12326000 μg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 9872000 μg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 6700000 µg/l Marine water	Fish - Menidia beryllina	96 hours
	Chronic NOEC 145 mg/l Fresh water	Fish - Pimephales promelas	32 days
	Chronic NOEC 145 mg/l Fresh water	Fish - Pimephales promelas	32 days
	Chronic NOEC 145 mg/l Fresh water	Fish - Pimephales promelas	32 days
ethylene oxide	Acute LC50 1000000 µg/l Marine water	Crustaceans - Artemia sp.	48 hours
	Acute LC50 490000 μg/l Marine water	Crustaceans - Artemia sp.	48 hours
	Acute LC50 300000 μg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 137000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 200000 μg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 84000 μg/l Fresh water	Fish - Pimephales promelas	96 hours
ammonia, anhydrous	Acute EC50 29.2 mg/l Marine water	Algae - Ulva fasciata - Zoea	96 hours
	Acute LC50 2500 μg/l Fresh water	Crustaceans - Asellus aquaticus	48 hours
	Acute LC50 4980 µg/l Marine water	Crustaceans - Penaeus	48 hours
		japonicus - Nauplii	40.1
	Acute LC50 5210 μg/l Marine water	Crustaceans - Fenneropenaeus	48 hours
	A t - 1 OFO 0000 // F 1 t	penicillatus - Zoea	40.1
	Acute LC50 2080 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 2710 μg/l Fresh water	Crustaceans - Ceriodaphnia reticulata	48 hours
	Acute LC50 0.53 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 25400 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 4180 μg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 4130 μg/l Fresh water	Daphnia - Daphnia pulex	48 hours
	Acute LC50 300 µg/l Fresh water	Fish - Hypophthalmichthys nobilis	96 hours
	Acute LC50 450 μg/l Fresh water	Fish - Oncorhynchus tshawytscha - Underyearling	96 hours
	Acute LC50 380 μg/l Fresh water	Fish - Hypophthalmichthys molitrix - Fingerling	96 hours
	Acute LC50 660 µg/l Fresh water	Fish - Cyprinus carpio	96 hours
	Acute LC50 440 µg/l Fresh water	Fish - Cyprinus carpio	96 hours
	Chronic NOEC 550 µg/l Fresh water	Fish - Rutilus rutilus - Embryo	31 days
	Chronic NOEC 0.204 mg/l Marine water	Fish - Dicentrarchus labrax	62 days
chlorobenzene	Acute EC50 20.2 mg/l Fresh water	Algae - Chlorella marina	72 hours
	Acute EC50 19.6 mg/l Fresh water	Algae - Phaeodactylum tricornutum	72 hours
	Acute EC50 30.2 mg/l Fresh water	Algae - Platymonas subcordiformis	72 hours
	Acute EC50 12.5 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 26.2 mg/l Fresh water	Algae - Nannochloropsis oculata	72 hours
	Acute EC50 3.43 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute LC50 7900 μg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 8900 μg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 11000 μg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 10400 μg/l Fresh water	Crustaceans - Ceriodaphnia	48 hours

Date of issue/Date of revision
Date of previous issue

: 30-9-2022 : No previous validation

Version : 1

15/21

# **SECTION 12: Ecological information**

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		dubia - Neonate	
	Acute LC50 11100 µg/l Fresh water	Crustaceans - Ceriodaphnia	48 hours
		dubia - Neonate	
	Acute LC50 10.7 mg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	
	Acute LC50 10700 μg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	
	Acute LC50 8600 μg/l Fresh water	Daphnia - Daphnia magna -	48 hours
	A	Neonate	40.1
	Acute LC50 11500 μg/l Fresh water	Daphnia - Daphnia magna -	48 hours
	A t - 1 050 40000 // 5 b	Neonate	40 5 5
	Acute LC50 12800 μg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 4500 µg/l Fresh water	Fish - Lepomis macrochirus -	96 hours
	Acute 2000 4000 µg/11 Testi water	Juvenile (Fledgling, Hatchling,	90 Hours
		Weanling)	
	Acute LC50 3480 µg/l Fresh water	Fish - Carassius auratus - Egg	96 hours
	Acute LC50 2370 µg/l Fresh water	Fish - Carassius auratus - Egg	96 hours
	Acute LC50 3.58 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 2 mg/kg Fresh water	Fish - Carassius auratus	30 days
	Chronic NOEC 8500 µg/l Fresh water	Fish - Danio rerio - Egg	28 days
	10		,

**Conclusion/Summary**: Not available.

## 12.2 Persistence and degradability

**Conclusion/Summary**: Not available.

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-ethoxy-1-methylethyl acetate	0.76	-	low
2-butoxyethanol	0.81	-	low
1,4-dioxane	-0.42	0.3 to 0.7	low
ethylene oxide	-0.3	-	low
chlorobenzene	2.46	4.3 to 40	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**

 Date of issue/Date of revision
 : 30-9-2022
 Version
 : 1

 Date of previous issue
 : No previous validation
 16/21
 AkzoNobel

## **SECTION 13: Disposal considerations**

#### Methods of disposal

: The generation of waste should be avoided or minimized 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.

#### **Disposal considerations**

: Do not allow to enter drains or watercourses. Residues in empty containers should be neutralized with a decontaminant (see section 6).

Dispose of according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no

longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

## European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

Waste code	Waste designation
EWC 08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

#### **Packaging**

Methods of disposal

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

**Disposal considerations** 

: Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers.

Empty containers must be scrapped or reconditioned.

Dispose of containers contaminated by the product in accordance with local or

national legal provisions.

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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
14.1 UN number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	III	III	III
14.5 Environmental hazards	No.	No.	No.

## **Additional information**

ADR/RID : Tunnel code (D/E)

Date of issue/Date of revision: 30-9-2022Version: 1Date of previous issue: No previous validation17/21AkzoNobel

## SECTION 14: Transport information

**IMDG** : Emergency schedules F-E, S-E

user

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

: Not applicable.

# **SECTION 15: Regulatory information**

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

## EU Regulation (EC) No. 1907/2006 (REACH)

### Annex XIV - List of substances subject to authorization

#### **Annex XIV**

instruments

None of the components are listed.

## Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Other EU regulations

VOC : The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the

product label and/or technical data sheet for further information.

**VOC for Ready-for-Use** 

**Mixture** 

: Not applicable.

: Not listed

**Industrial emissions** 

(integrated pollution

prevention and control) -

Air

**Industrial emissions** 

: Not listed

(integrated pollution prevention and control) -

Water

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed

**Seveso Directive** 

This product is controlled under the Seveso Directive.

### **Danger criteria**

## Category

P<sub>5</sub>c

#### **National regulations**

Date of issue/Date of revision : 30-9-2022 Version : 1

**AkzoNobel** Date of previous issue : No previous validation 18/21

## **SECTION 15: Regulatory information**

Industrial use

: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

Product/ingredient name	List name	Name on list	Classification	Notes
1 ,	<u>'</u>	ethylene oxide; epoxyethane	Carc.	-

#### **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.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

#### **Inventory list**

**Europe** : Not determined.

## 15.2 Chemical Safety

**Assessment** 

: No Chemical Safety Assessment has been carried out.

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and

acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

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

EUH statement = 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 according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
1 -,	On basis of test data Calculation method

#### Full text of abbreviated H statements

Date of issue/Date of revision: 30-9-2022Version: 1Date of previous issue: No previous validation19/21AkzoNobel

# **SECTION 16: Other information**

SECTION 10. Other line	ormation
H220	Extremely flammable gas.
H221	Flammable gas.
H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H280	Contains gas under pressure; may explode if heated.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if
	inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H360Fd	May damage fertility. Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated
	exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH014	Reacts violently with water.
EUH019	May form explosive peroxides.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH071	Corrosive to the respiratory tract.
Full tout of alongifications [OLD]	

## Full text of classifications [CLP/GHS]

Acute Tox. 2	ACUTE TOXICITY - Category 2
Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Chronic 1	AQUATIC HAZARD (LONG-TERM) - Category 1
Aquatic Chronic 2	AQUATIC HAZARD (LONG-TERM) - Category 2
Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM) - Category 3
Carc. 1B	CARCINOGENICITY - Category 1B
Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Flam. Gas 1A	FLAMMABLE GASES - Category 1A
Flam. Gas 2	FLAMMABLE GASES - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Muta. 1B	GERM CELL MUTAGENICITY - Category 1B
Press. Gas (Comp.)	GASES UNDER PRESSURE - Compressed gas
Repr. 1B	TOXIC TO REPRODUCTION - Category 1B
Resp. Sens. 1	RESPIRATORY SENSITIZATION - Category 1
Skin Corr. 1	SKIN CORROSION/IRRITATION - Category 1
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITIZATION - Category 1
Skin Sens. 1A	SKIN SENSITIZATION - Category 1A
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY (REPEATED
	EXPOSURE) - Category 1
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -
	Category 3

Date of issue/Date of revision: 30-9-2022Version: 1Date of previous issue: No previous validation20/21

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

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## **SECTION 16: Other information**

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