

SAFETY DATA SHEET

Ceilcote 180 Flakeline Part A

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

1.1 Product identifier

Product name : Ceilcote 180 Flakeline Part A

SDS code : NCA017

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

Identified uses

Professional use Industrial use

Uses advised against

All other uses

Product use: Two component coating for interior and exterior use.

1.3 Details of the supplier of the safety data sheet

Akzo Nobel Coatings BV International Paint Ltd. Zevenakkersweg 4 Stoneygate Lane

8191 AA Felling
Wapenveld Gateshead
Netherlands Tyne and Wear
NE10 0JY UK

Tel: +44 (0)191 469 6111 Fax: +44 (0)191 438 3711

e-mail address of person : sdsfellinguk@akzonobel.com

responsible for this SDS

1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number : +44 (0)344 892 0111

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 Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 2, H361d STOT SE 3, H335 STOT RE 1, H372

Date of issue/Date of revision: 18-7-2024Version: 3.01

Date of previous issue : 6-7-2023 1/21 AkzoNobel

Ceilcote 180 Flakeline Part A

SECTION 2: Hazards identification

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

Hazard pictograms







Signal word : Danger

Hazard statements : ▶226 - Flammable liquid and vapor.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation.

H361d - Suspected of damaging the unborn child.

H372 - Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention: P201 - Obtain special instructions before use.

P280 - Wear protective gloves, protective clothing, eye protection, face protection,

or hearing protection.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. P260 - Do not breathe vapor.

P270 - Do not eat, drink or smoke when using this product.

P264 - Wash hands thoroughly after handling.

Response : P308 + P313 - IF exposed or concerned: Get medical advice or attention.

P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.

P362 + P364 - Take off contaminated clothing and wash it before reuse.

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

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

Storage : P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 - Keep cool.

Disposal: P501 - Dispose of contents and container in accordance with all local, regional,

national or international regulations.

Hazardous ingredients : styrene

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-

2,3-epoxypropane, reaction products with maleic anhydride and methacrylic acid

cobalt bis(2-ethylhexanoate)

Supplemental label

elements

: Warning! Hazardous respirable droplets may be formed when sprayed. Do not

breathe spray or mist.

Annex XVII - Restrictions on the manufacture, 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.

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Date of issue/Date of revision : 18-7-2024 Version : 3.01

Date of previous issue : 6-7-2023 2/21 AkzoNobel

Ceilcote 180 Flakeline Part A

SECTION 2: Hazards identification

Tactile warning of danger : Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according : This mixture does not contain any substances that are assessed to be a PBT or a

vPvB.

to Regulation (EC) No. 1907/2006, Annex XIII

Other hazards which do not result in classification

: None known.

SECTION 3: Composition/information on ingredients

: Mixture 3.2 Mixtures

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
styrene	REACH #: 01-2119457861-32 EC: 202-851-5 CAS: 100-42-5 Index: 601-026-00-0	≥20 - <25	Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361d STOT SE 3, H335 STOT RE 1, H372 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Inhalation (vapours)] = 11 mg/ I	[1]
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with maleic anhydride and methacrylic acid	EC: 500-090-6 CAS: 36425-16-8	≥10 - ≤15	Skin Sens. 1B, H317	-	[1]
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≤3	Carc. 2, H351 (inhalation)	-	[1] [*]
methanol	REACH #: 01-2119433307-44 EC: 200-659-6 CAS: 67-56-1 Index: 603-001-00-X	≤0.3	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370	ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (vapours)] = 3 mg/l STOT SE 1, H370: $C \ge 10\%$ STOT SE 2, H371: $3\% \le C < 10\%$	[1] [2]
cobalt bis(2-ethylhexanoate)	EC: 205-250-6 CAS: 136-52-7	<0.1	Eye Irrit. 2, H319 Skin Sens. 1A, H317 Repr. 1B, H360FD Aquatic Acute 1, H400 Aquatic Chronic 3, H412	M [Acute] = 1	[1]

Date of issue/Date of revision : 18-7-2024 Version: 3.01

AkzoNobel Date of previous issue : 6-7-2023 3/21

Ceilcote 180 Flakeline Part A

SECTION 3: Composition/information on ingredients					
	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

- M Substance classified with a physical, health or environmental hazard
- [2] Substance with a workplace exposure limit
- [*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter ≤ 10 µm not bound within a matrix.

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 if easy to do. 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 it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 necessary, call a poison center or physician. 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. 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. 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. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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.

Date of issue/Date of revision : 18-7-2024 Version : 3.01

Date of previous issue : 6-7-2023 4/21 AkzoNobel

Ceilcote 180 Flakeline Part A

SECTION 4: First aid measures

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.

Ingestion may cause nausea, diarrhea and vomiting.

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.

Contains 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with maleic anhydride and methacrylic acid, cobalt bis(2-ethylhexanoate). May produce an allergic reaction.

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

reduced fetal weight increase in fetal deaths skeletal malformations

Skin contact: Adverse symptoms may include the following:

irritation redness

reduced fetal weight increase in fetal deaths skeletal malformations

Ingestion: Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

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, CO₂, 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

Date of issue/Date of revision : 18-7-2024 Version : 3.01

Date of previous issue : 6-7-2023 5/21 AkzoNobel

Ceilcote 180 Flakeline Part A

SECTION 5: Firefighting measures

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 inadequate. Put on appropriate personal protective equipment.

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.

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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.

7.1 Precautions for safe handling

Date of issue/Date of revision : 18-7-2024 Version: 3.01 Date of previous issue : 6-7-2023 6/21

Ceilcote 180 Flakeline Part A

SECTION 7: Handling and storage

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. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. 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. Store locked up. 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

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
styrene	EH40/2005 WELs (United Kingdom (UK), 1/2020).
•	STEL: 1080 mg/m³ 15 minutes.
	STEL: 250 ppm 15 minutes.
	TWA: 430 mg/m³ 8 hours.
	TWA: 100 ppm 8 hours.
methanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 333 mg/m³ 15 minutes.
	STEL: 250 ppm 15 minutes.

Date of issue/Date of revision: 18-7-2024Version: 3.01Date of previous issue: 6-7-20237/21AkzoNobel

Ceilcote 180 Flakeline Part A

SECTION 8: Exposure controls/personal protection

TWA: 266 mg/m³ 8 hours. TWA: 200 ppm 8 hours.

cobalt bis(2-ethylhexanoate)

EH40/2005 WELs (United Kingdom (UK), 1/2020). [cobalt and cobalt compounds] Inhalation sensitizer. Notes: as Co TWA: 0.1 mg/m³, (as Co) 8 hours.

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 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
s tyrene	DNEL	Long term Oral	7.7 µg/kg bw/day	General population	Systemic
	DNEL	Long term	1 mg/m³	General	Local
		Inhalation	Ü	population	
	DNEL	Long term	1 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Short term	10 mg/m³	General	Local
		Inhalation		population	
	DNEL	Short term	10 mg/m³	General	Systemic
	DAIEL	Inhalation	05 3	population	0
	DNEL	Long term Inhalation	85 mg/m³	Workers	Systemic
	DNEL	Short term	100 mg/m³	Workers	Local
	DINEL	Inhalation	100 mg/m	VVOIKEIS	Lucai
	DNEL	Long term	100 mg/m ³	Workers	Local
	5.122	Inhalation	. 00 mg/m	· · · · · · · · · · · · · · · · · · ·	20041
	DNEL	Short term	100 mg/m ³	Workers	Systemic
		Inhalation	J		
	DNEL	Long term Dermal	343 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	406 mg/kg bw/day	Workers	Systemic
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction	DNEL	Short term Dermal	10 mg/kg bw/day	Workers	Systemic
products with maleic anhydride and					
methacrylic acid					
,	DNEL	Long term Dermal	10 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	35.2 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	35.2 mg/m³	Workers	Systemic
titanium dioxide	DNEL	Long term Inhalation	28 μg/m³	General population	Local
	DNEL	Long term Inhalation	170 μg/m³	Workers	Local
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Date of issue/Date of revision : 18-7-2024

Date of previous issue : 6-7-2023 Version: 3.01

8/21

Ceilcote 180 Flakeline Part A

SECTION 8: Exposure controls/personal protection

<u> </u>		<u> </u>			
methanol	DNEL	Short term Oral	4 mg/kg bw/day	General population	Systemic
	DNIEL		•		04:-
	DNEL	Long term Oral	4 mg/kg	General	Systemic
	DATE	0, 1, 5	bw/day	population	
	DNEL	Short term Dermal	4 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	4 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term Dermal	20 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	20 mg/kg bw/day	Workers	Systemic
	DNEL	Short term	26 mg/m ³	General	Local
	0.122	Inhalation	20 mg/m	population	20041
	DNEL	Long term	26 mg/m³	General	Local
	J.,	Inhalation	20 mg/m	population	20041
	DNEL	Short term	26 mg/m³	General	Systemic
	DIVLE	Inhalation	20 mg/m	population	Gyotomio
	DNEL	Long term	26 mg/m³	General	Systemic
	DIVLL	Inhalation	20 1119/111	population	Oysternio
	DNEL	Short term	130 mg/m³	Workers	Local
	DIVLL	Inhalation	130 mg/m	WOIKEIS	Local
	DNEL	Long term	130 mg/m³	Workers	Local
	DIVLL	Inhalation	130 mg/m	WOIKEIS	Local
	DNEL	Short term	130 mg/m³	Workers	Systemic
	DINEL		130 mg/m	VVOINCIS	Systemic
	DNE	Inhalation	120 mg/m³	Morkoro	Systemia
	DNEL	Long term	130 mg/m ³	Workers	Systemic
ashalt his/2 athydbayanasts	חאבי	Inhalation	27	Camaral	
cobalt bis(2-ethylhexanoate)	DNEL	Long term	37 µg/m³	General	Local
	D. 15	Inhalation	475 "	population	
	DNEL	Long term Oral	175 µg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	235.1 μg/	Workers	Local
		Inhalation	m³		
		•	•		

PNECs

No PNECs available.

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: chemical splash goggles.

Skin protection

Date of issue/Date of revision: 18-7-2024Version: 3.01Date of previous issue: 6-7-20239/21AkzoNobel

Ceilcote 180 Flakeline Part A

SECTION 8: Exposure controls/personal 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 ® or Nitrile, thickness ≥ 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 ≥ 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

: Dased 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. Wear a respirator conforming to EN140 with type A/P2 filter or better.

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

: 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

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.
Color : Brown.
Odor : Sweetish.
Odor threshold : Not available.
Melting point/freezing point : Not available.

Date of issue/Date of revision : 18-7-2024 Version : 3.01

Date of previous issue : 6-7-2023 10/21 AkzoNobel

Ceilcote 180 Flakeline Part A

SECTION 9: Physical and chemical properties

Boiling point, initial boiling

Not available.

point, and boiling range

: Not available.

Lower and upper explosion

limit

Flammability

: Greatest known range: Lower: 0.9% Upper: 6.8% (styrene)

Flash point : Closed cup: 33°C (91.4°F) [Pensky-Martens]

Auto-ignition temperature

Ingredient name	°C	°F	Method
styrene	490	914	

Decomposition temperature

: Not available.

: Not applicable. [DIN EN 1262]

Viscosity

: Kinematic (room temperature): 35312 mm²/s [DIN EN ISO 3219]

Kinematic (40°C): 46789 mm²/s [DIN EN ISO 3219]

Solubility(ies)

Media	Result
<mark></mark>	Not soluble [OECD (TG 105)]

Partition coefficient: n-octanol/: Not applicable.

water

Vapor pressure

	Vapor Pressure at 20°C			Va	e at 50°C	
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
styrene	6.4	0.85				

: 1.325 g/cm3 [DIN EN ISO 2811-1] Density

Vapor density : Not available.

Particle characteristics

Median particle size : Not applicable.

Percentage of particles with aerodynamic diameter ≤ 10

μm

: 0

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

Date of issue/Date of revision : 18-7-2024 Version: 3.01 **AkzoNobel** Date of previous issue : 6-7-2023 11/21

Ceilcote 180 Flakeline Part A

SECTION 10: Stability and reactivity

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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. 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.

Ingestion may cause nausea, diarrhea and vomiting.

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.

Contains 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with maleic anhydride and methacrylic acid, cobalt bis(2-ethylhexanoate). May produce an allergic reaction.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
s tyrene	LC50 Inhalation Gas.	Mouse	4940 ppm	2 hours
	LC50 Inhalation Gas.	Rat	2770 ppm	4 hours
	LC50 Inhalation Vapor	Mouse	21000 mg/m ³	2 hours
	LC50 Inhalation Vapor	Mouse	9500 mg/m ³	4 hours
	LC50 Inhalation Vapor	Rat	11800 mg/m ³	4 hours
	LD50 Intraperitoneal	Mouse	660 mg/kg	-
	LD50 Intraperitoneal	Rat	898 mg/kg	-
	LD50 Intravenous	Mouse	90 mg/kg	-
	LD50 Oral	Mouse	316 mg/kg	-
	LD50 Oral	Rat	2650 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
methanol	LC50 Inhalation Gas.	Mouse	61100 ppm	134 minutes
	LC50 Inhalation Gas.	Mouse	41000 ppm	6 hours
	LC50 Inhalation Gas.	Rat	145000 ppm	1 hours
	LC50 Inhalation Gas.	Rat	64000 ppm	4 hours
	LC50 Inhalation Gas.	Rat	64000 ppm	8 hours
	LC50 Inhalation Vapor	Rabbit	81000 mg/m ³	14 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Intraperitoneal	Rat	7529 mg/kg	-
	LD50 Intravenous	Mouse	4710 mg/kg	-
	LD50 Intravenous	Rat	2131 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
	LD50 Subcutaneous	Mouse	9800 mg/kg	-
cobalt bis(2-ethylhexanoate)	LD50 Dermal	Rabbit	>5 g/kg	-
,	LD50 Oral	Rat	1.22 g/kg	-

Conclusion/Summary

: Not available.

Acute toxicity estimates

Date of issue/Date of revision: 18-7-2024Version: 3.01Date of previous issue: 6-7-202312/21AkzoNobel

Ceilcote 180 Flakeline Part A

SECTION 11: Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
roduct as-supplied	57413.9	172241.6	N/A	44.5	N/A
styrene	N/A	N/A	N/A	11	N/A
methanol	100	300	N/A	3	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
s tyrene	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Moderate irritant	Rabbit	-	40 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	

Conclusion/Summary

Sensitization

Conclusion/Summary

: Not available.

: Not available.

<u>Mutagenicity</u>

Conclusion/Summary

: Not available.

Carcinogenicity

Conclusion/Summary

: Not available.

Reproductive toxicity

Conclusion/Summary

: Not available.

<u>Teratogenicity</u>

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
s tyrene	Category 3	-	Respiratory tract irritation
methanol	Category 1	-	-

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs	Ì
styrene	Category 1	-	hearing organs	ì

Aspiration hazard

Product/ingredient name	Result
s tyrene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

: Not available.

Potential acute health effects

Eye contact : Causes serious eye irritation.

Date of issue/Date of revision : 18-7-2024 Version : 3.01

Date of previous issue : 6-7-2023 13/21 AkzoNobel

Ceilcote 180 Flakeline Part A

SECTION 11: Toxicological information

Inhalation : May cause respiratory irritation.

Skin contact: Causes skin irritation. 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 : Adverse symptoms may include the following:

pain or irritation

watering redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

reduced fetal weight increase in fetal deaths skeletal malformations

Skin contact: Adverse symptoms may include the following:

irritation redness

reduced fetal weight increase in fetal deaths skeletal malformations

Ingestion: Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

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

effects

: Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary: Not available.

General : Causes damage to organs through prolonged or repeated exposure. 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: Suspected of damaging the unborn child.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

No additional information.

Date of issue/Date of revision : 18-7-2024 Version : 3.01

Date of previous issue : 6-7-2023 14/21 AkzoNobel

Ceilcote 180 Flakeline Part A

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.

Product/ingredient name	Result	Species	Exposure
s tyrene	Acute EC50 1400 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 33 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 720 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 78000 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 4700 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 52 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 23000 μg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 59000 μg/l Fresh water	Daphnia - Daphnia magna - Young	48 hours
	Acute LC50 9.1 ppm Marine water	Fish - Cyprinodon variegatus - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Acute LC50 4.7 mg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 4020 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 9900 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 4080 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 63 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
titanium dioxide	Acute LC50 >1000 mg/l Fresh water	Fish - Pimephales promelas	96 hours
methanol	Acute EC50 16.912 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 24500000 μg/l Fresh water	Daphnia - Daphnia magna - Larvae	48 hours
	Acute EC50 22200 mg/l Fresh water	Daphnia - Daphnia obtusa - Neonate	48 hours
	Acute EC50 12835 mg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute EC50 12700000 μg/l Fresh water	Fish - Lepomis macrochirus - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Acute EC50 13000000 μg/l Fresh water		96 hours
	Acute LC50 2500000 μg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 3289 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water	Fish - Danio rerio - Egg	96 hours
	Acute LC50 15.32 g/L Fresh water	Fish - Oreochromis mossambicus - Adult	96 hours
	Chronic NOEC 24 ppm Fresh water	Algae - Eutreptiella sp.	96 hours
	Chronic NOEC 71 ppm Fresh water	Algae - Heterosigma akashiwo	96 hours
	Chronic NOEC 410 ppm Fresh water	Algae - Prorocentrum minimum	96 hours
	Chronic NOEC 1400 ppm Fresh water	Algae - Skeletonema costatum	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours

Conclusion/Summary

: Not available.

12.2 Persistence and degradability

Date of issue/Date of revision	: 18-7-2024	Version : 3.01	
Date of previous issue	: 6-7-2023	15/21	AkzoNobel

Ceilcote 180 Flakeline Part A

SECTION 12: Ecological information

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
styrene	0.35 <0.3	13.49	low low
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-	-0.5	-	IOW
2,3-epoxypropane, reaction products with maleic anhydride and methacrylic			
acid			
methanol	-0.77	<10	low
cobalt bis(2-ethylhexanoate)	-	15600	high

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 Endocrine disrupting properties

Not available.

12.7 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 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.

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:

Date of issue/Date of revision: 18-7-2024Version: 3.01Date of previous issue: 6-7-202316/21AkzoNobel

Ceilcote 180 Flakeline Part A

SECTION 13: Disposal considerations

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.

: Using information provided in this safety data sheet, advice should be obtained from **Disposal considerations**

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 or ID 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 : Viscous liquid exception This class 3 viscous liquid is not subject to regulation in

packagings up to 450 L according to 2.2.3.1.5.1.

Tunnel code (D/E)

IMDG : Emergency schedules F-E, _S-E_

Viscous liquid exception This class 3 viscous liquid is not subject to regulation in

packagings up to 450 L according to 2.3.2.5.

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 instruments

: Not applicable.

Date of issue/Date of revision : 18-7-2024 Version: 3.01

AkzoNobel Date of previous issue : 6-7-2023 17/21

Ceilcote 180 Flakeline Part A

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 authorization

Annex XIV

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 available.

Industrial emissions (integrated pollution

prevention and control) -

: Not listed

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.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category P₅c

National regulations

Product/ingredient name	List name	Name on list	Classification	Notes
	UK Occupational Exposure Limits EH40 - WEL	cobalt and cobalt compounds as Co	Carc.	-

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Date of issue/Date of revision : 18-7-2024 Version: 3.01 **AkzoNobel** Date of previous issue : 6-7-2023 18/21

Ceilcote 180 Flakeline Part A

SECTION 15: Regulatory information

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.

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
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Repr. 2, H361d	Calculation method
STOT SE 3, H335	Calculation method
STOT RE 1, H372	Calculation method

Full text of abbreviated H statements

⊬ 225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H360FD	May damage fertility. May damage the unborn child.
H361d	Suspected of damaging the unborn child.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated
	exposure.
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Date of issue/Date of revision : 18-7-2024 Version : 3.01

Date of previous issue : 6-7-2023 19/21 AkzoNobel

Ceilcote 180 Flakeline Part A

SECTION 16: Other information	
H400 H412	Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS] Acute Tox. 3 ACUTE TOXICITY - Category 3 Acute Tox. 4 **ACUTE TOXICITY - Category 4** Aquatic Acute 1 AQUATIC HAZARD (ACUTE) - Category 1 Aquatic Chronic 3 AQUATIC HAZARD (LONG-TERM) - Category 3 Asp. Tox. 1 ASPIRATION HAZARD - Category 1 Carc. 2 **CARCINOGENICITY - Category 2** Eve Irrit. 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 Flam. Liq. 2 FLAMMABLE LIQUIDS - Category 2 Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3 Repr. 1B TOXIC TO REPRODUCTION - Category 1B Repr. 2 TOXIC TO REPRODUCTION - Category 2 Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2 Skin Sens. 1 SKIN SENSITIZATION - Category 1 Skin Sens. 1A SKIN SENSITIZATION - Category 1A Skin Sens. 1B SKIN SENSITIZATION - Category 1B STOT RE 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 STOT SE 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -STOT SE 3 Category 3

Date of printing : 18-7-2024 Date of issue/ Date of : 18-7-2024

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Date of previous issue : 6-7-2023 Version : 3.01

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Date of previous issue : 6-7-2023 20/21 AkzoNobel

Ceilcote 180 Flakeline Part A

Date of previous issue :6-7-2023 21/21 AkzoNobel