

SAFETY DATA SHEET

Activator 99330

Section 1. Identification

GHS product identifier SDS code

: Activator 99330 : A42544

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

Identified uses		
Industrial use		
	Uses advised against	
Consumer use		
Manufacturer	: Akzo Nobel Coatings, Inc. 1 East Water Street Waukegan, IL 60085 USA Tel. 1 847 623 4200 Email: customer.service@akzonobel.com	
	Akzo Nobel Coatings Ltd. 110 Woodbine Downs Blvd. Unit #4 Etobicoke, Ontario Canada M9W 5S6 +1 (800) 618-1010	
Importer	 Cía. Mexicana de Pinturas International S.A. de C.V., Carretera Anillo Periférico, No Ext 205, No Interior A, Colonia HDA S JOSE, Garcia, Garcia, CP 66000, Nuevo Leon. RFC: ANA9510267C4 	
Emergency telephone number (with hours of operation)	: CHEMTREC +1 (800) 424-9300 (Inside the US) CHEMTREC International +1 (703) 527-3887 (Outside the US, collect calls accepted)	
Section 2. Hazards identification		
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).	
Classification of the substance or mixture	: FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2	

TOXIC TO REPRODUCTION (Fertility) - Category 1B TOXIC TO REPRODUCTION (Unborn child) - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -Category 3

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Section 2. Hazards identification

<u>GHS label elements</u> Hazard pictograms	
Signal word	: Danger
Hazard statements	 Highly flammable liquid and vapor. Harmful if swallowed, in contact with skin or if inhaled. Causes serious eye irritation. May damage fertility or the unborn child. Suspected of causing cancer. May cause respiratory irritation. May cause drowsiness or dizziness.
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear protective clothing. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Response	: IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage	: Store locked up.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture

:	Mixture

Ingredient name	%	CAS number
4-methylpentan-2-one	≥25 - ≤45	108-10-1
pentane-2,4-dione	≥25 - ≤30	123-54-6
n-butyl acetate	≥10 - ≤20	123-86-4
2-methoxy-1-methylethyl acetate	≥10 - ≤20	108-65-6
dibutyltin dilaurate	<1	77-58-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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 and hence require reporting in this section.

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



Section 4. First aid measures

Description of necessary first aid measures

Eye contact	 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If 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. If necessary, call a poison center or physician. 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 necessary, call a poison center or physician. 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.

Most important symptoms/effects, acute and delayed

Potential acute health effects Eye contact : Causes serious eye irritation. Inhalation : Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. Skin contact : Harmful in contact with skin. Ingestion : Harmful if swallowed. Can cause central nervous system (CNS) depression. **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 nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations Skin contact : Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations Date of issue/Date of revision : 12/19/2022 Version : 1.03 **AkzoNobel** Date of previous issue : 12/19/2022 3/16

Section 4. First aid measures

Ingestion

: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
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.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Highly 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 thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
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.

Section 6. Accidental release measures

Personal precautions, protect	tiv	e 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".
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).

Methods and materials for containment and cleaning up

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Section 6. Accidental release measures

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 non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment (see Section 8). Avoid exposure - btain special instructions before use. Avoid exposure during pregnancy. Do not andle until all safety precautions have been read and understood. Do not get in eyes r on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with dequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do ot enter storage areas and confined spaces unless adequately ventilated. Keep in the riginal container or an approved alternative made from a compatible material, kept ghtly closed when not in use. Store and use away from heat, sparks, open flame or ny other ignition source. Use explosion-proof electrical (ventilating, lighting and naterial handling) equipment. Use only non-sparking tools. Take precautionary neasures against electrostatic discharges. Empty containers retain product residue nd 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 andled, stored and processed. Workers should wash hands and face before eating, rinking and smoking. Remove contaminated clothing and protective equipment before ntering eating areas. See also Section 8 for additional information on hygiene neasures.
Conditions for safe storage, including any incompatibilities	tore 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-ventilate rea, away from incompatible materials (see Section 10) and food and drink. Store bocked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep ontainer tightly closed and sealed until ready for use. Containers that have been pened must be carefully resealed and kept upright to prevent leakage. Do not store in nlabeled containers. Use appropriate containment to avoid environmental ontamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name Exposure limits			
4-methylpentan-2-one		ACGIH TLV (United Sta Substances for which t Exposure Index or India STEL: 75 ppm 15 minut TWA: 20 ppm 8 hours. NIOSH REL (United Sta STEL: 300 mg/m³ 15 m STEL: 75 ppm 15 minut TWA: 205 mg/m³ 10 ho TWA: 50 ppm 10 hours OSHA PEL (United Stat	here is a Biological ces tes. tes, 10/2016). inutes. tes. urs.
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Section 8. Exposure controls/personal protection

	TWA: 410 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
	OSHA PEL 1989 (United States, 3/1989).
	STEL: 300 mg/m ³ 15 minutes.
	STEL: 75 ppm 15 minutes.
	TWA: 205 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
pentane-2,4-dione	ACGIH TLV (United States, 3/2019).
	Absorbed through skin.
	TWA: 25 ppm 8 hours.
n-butyl acetate	NIOSH REL (United States, 10/2016).
	STEL: 950 mg/m ³ 15 minutes.
	STEL: 200 ppm 15 minutes.
	TWA: 710 mg/m ³ 10 hours.
	TWA: 710 fig/iii 10 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 710 mg/m ³ 8 hours.
	TWA: 150 ppm 8 hours.
	OSHA PEL 1989 (United States, 3/1989).
	STEL: 950 mg/m ³ 15 minutes.
	STEL: 200 ppm 15 minutes.
	TWA: 710 mg/m ³ 8 hours.
	TWA: 150 ppm 8 hours.
	ACGIH TLV (United States, 3/2019).
	STEL: 150 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
2-methoxy-1-methylethyl acetate	AIHA WEEL (United States, 7/2018).
	TWA: 50 ppm 8 hours.
dibutyltin dilaurate	OSHA PEL 1989 (United States, 3/1989).
	Absorbed through skin. Notes: measured
	as Sn
	TWA: 0.1 mg/m ³ , (measured as Sn) 8 hours.
	Form: Organic
	ACGIH TLV (United States, 3/2019).
	Absorbed through skin. Notes: as Sn
	STEL: 0.2 mg/m ³ , (as Sn) 15 minutes.
	TWA: 0.1 mg/m ³ , (as Sn) 8 hours.
	NIOSH REL (United States, 10/2016).
	Absorbed through skin. Notes: as Sn
	TWA: 0.1 mg/m³, (as Sn) 10 hours.
	OSHA PEL (United States, 5/2018). Notes:
	as Sn
	TWA: 0.1 mg/m ³ , (as Sn) 8 hours.

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.
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.

Individual protection measures

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Section 8. Exposure controls/personal protection

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

Section 9. Physical and chemical properties

Appearance

Physical state	:	Liquid.			
Color	:	Colorless.			
Odor	:	Typical.			
Odor threshold	:	Not available.			
рН	:	Not available.			
Melting/freezing point	:	Not available.			
Boiling point	:	117°C (242.6°F)			
boiling range	:	Not available.			
Flash point	:	Closed cup: 15°C (59°F)			
Evaporation rate	:	Not available.			
Flammability (solid, gas)	:	Not available.			
Upper/lower flammability or exp	olo	osive limits			
Upper:	:	Not determined.			
Lower:	:	Not determined.			
Vapor pressure	:	Not available.			
Vapor density	:	Not available.			
Relative density	:	0.876			
Density	:	7.31 lbs/gal 0.876 g/cm ³			
Solubility	: Not available.				
Solubility in water	:	Not available.			

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Section 9. Physical and chemical properties

Partition coefficient: n- octanol/water	: Not av	ailable.			
Auto-ignition temperature	: Not av	ailable.			
Decomposition temperature	: Not av	ailable.			
Viscosity					re): 0.46 cm²/s (46 cSt)).06 cm²/s (6 cSt)
Weight Volatiles	: 99.7%	(w/w)			
Volume Volatiles	: 99.74	%(v/v)			
Weight Solids	: 0.30	%(w/w)			
Volume Solids	: 0.26	%(v/v)			
Regulatory VOC	: 7.3	lbs/gal	873	g/l	minus water and exempt solvents
VOC Actual	: 7.3	lbs/gal	873	g/l	

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
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.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
4-methylpentan-2-one	LC50 Inhalation Vapor	Rat - Male,	11.6 mg/l	4 hours
		Female		
	LD50 Intraperitoneal	Guinea pig	800 mg/kg	-
	LD50 Intraperitoneal	Mouse	268 mg/kg	-
	LD50 Intraperitoneal	Rat	400 mg/kg	-
	LD50 Oral	Guinea pig	1600 mg/kg	-
	LD50 Oral	Mouse	1900 mg/kg	-
	LD50 Oral	Mouse	2850 mg/kg	-
	LD50 Oral	Rat	2080 mg/kg	-
	LD50 Oral	Rat	4600 mg/kg	-
pentane-2,4-dione	LC50 Inhalation Vapor	Rat	5.1 mg/l	4 hours
	LD50 Dermal	Rat	790 mg/kg	-
	LD50 Oral	Rat - Female	570 mg/kg	-
n-butyl acetate	LC50 Inhalation Gas.	Rat	390 ppm	4 hours
-	LC50 Inhalation Vapor	Mouse	6 g/m³	2 hours
	LC50 Inhalation Vapor	Rat	390 ppm	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Intraperitoneal	Mouse	1230 mg/kg	-
	LD50 Oral	Guinea pig	4700 mg/kg	-
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	slogical information			
	LD50 Oral	Mouse	6 g/kg	-
	LD50 Oral	Rabbit	3200 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	-
2-methoxy-1-methylethyl acetate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Intraperitoneal	Mouse	750 mg/kg	-
	LD50 Intraperitoneal	Mouse	>1500 mg/kg	-
	LD50 Oral	Mouse	>5000 mg/kg	-
	LD50 Oral	Rat	8532 mg/kg	-
	LD50 Oral	Rat	9000 mg/kg	-
dibutyltin dilaurate	LC50 Inhalation Dusts and mists	Mouse	150 mg/m³	2 hours
	LD50 Intraperitoneal	Mouse	180 mg/kg	-
	LD50 Intravenous	Rat	33 mg/kg	-
	LD50 Oral	Mouse	210 mg/kg	-
	LD50 Oral	Rabbit	100 mg/kg	-
	LD50 Oral	Rat	175 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
4-methylpentan-2-one	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				UI	
	Eyes - Severe irritant	Rabbit	-	40 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
pentane-2,4-dione	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Skin - Mild irritant	Rabbit	-	488 mg	-
	Skin - Mild irritant	Rabbit	-	6 hours 11.2	-
				MLI	
	Skin - Moderate irritant	Rabbit	-	48 hours 11.2	-
				MLI	
	Skin - Moderate irritant	Rabbit	-	6 hours 33.6	-
				MLI	
n-butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
-	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
dibutyltin dilaurate	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Skin - Severe irritant	Rabbit	-	500 mg	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
4-methylpentan-2-one	-	2B	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
4-methylpentan-2-one	Category 3	Not applicable.	Respiratory tract irritation
n-butyl acetate	Category 3	Not applicable.	Narcotic effects
2-methoxy-1-methylethyl acetate	Category 3	Not applicable.	Narcotic effects
dibutyltin dilaurate	Category 1	Not determined	thymus

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
dibutyltin dilaurate	Category 1	Not determined	Not determined

Aspiration hazard

Not available.

Information on the likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact	:	Causes serious eye irritation.
Inhalation	:	Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	:	Harmful in contact with skin.
Ingestion	:	Harmful if swallowed. Can cause central nervous system (CNS) depression.

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 nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: 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					
<u>Short term exposure</u>					
Potential immediate effects	: Not available.				
Potential delayed effects	: Not available.				
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Section 11. Toxicological information

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Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	ects
Not available.	
General	: No known significant effects or critical hazards.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: May damage the unborn child.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: May damage fertility.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	1050.7 mg/kg
Dermal	1456.2 mg/kg
Inhalation (vapors)	10.27 mg/l

Section 12. Ecological information

Toxicitv	

Product/ingredient name	Result	Species	Exposure
4-methylpentan-2-one	Acute LC50 505000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 540000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 537000 µg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 78 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 168 mg/l Fresh water	Fish - Pimephales promelas - Embryo	33 days
pentane-2,4-dione	Acute EC50 75000 µg/l Fresh water	Crustaceans - Ceriodaphnia reticulata - Larvae	48 hours
	Acute EC50 75000 µg/l Fresh water	Daphnia - Daphnia magna - Larvae	48 hours
	Acute EC50 75000 µg/l Fresh water	Daphnia - Daphnia pulex - Larvae	48 hours
	Acute LC50 35400 ul/L Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 47600 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 74300 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 66900 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 60100 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 71600 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute LC50 71700 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
n-butyl acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 100000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 185000 µg/l Marine water	Fish - Menidia beryllina	96 hours
	Acute LC50 62000 µg/l Fresh water	Fish - Danio rerio	96 hours

Persistence and degradability

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Section 12. Ecological information

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
4-methylpentan-2-one pentane-2,4-dione n-butyl acetate 2-methoxy-1-methylethyl	1.9 0.68 2.3 1.2	- - - -	low low low low
acetate dibutyltin dilaurate	4.44	2.91	low

Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

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

Section 13. Disposal considerations

Disposal methods	: 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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

The information provided in section 14 is based on a bulk package shipment via ground transport in North America. All shippers are responsible for ensuring the proper transportation classification and package/container requirements are followed for the relevant mode of transport.

	DOT Classification	TDG Classification	Mexico Classification	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT RELATED MATERIAL				
Transport hazard class(es)	3	3	3	3	3
Packing group	11	11	11	11	11
Environmental hazards	No.	No.	No.	No.	No.

Additional information

Date of issue/Date of revision	: 12/19/2022	Version : 1.03	
Date of previous issue	: 12/19/2022	12/16	AkzoNobel

Section 14. Transport information

DOT Classification	:	Reportable quantity 11185.7 lbs / 5078.3 kg [1531.4 gal / 5797.1 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements. Special provisions 383
TDG Classification	:	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3).
IMDG	:	Emergency schedules F-E, _S-E_
Special precautions for user	:	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.
Transport in bulk according to Annex II of MARPOL and	:	Not available.

the IBC Code

Section 15. Regulatory information

•	
U.S. Federal regulations	: TSCA 5(a)2 final significant new use rules: pentane-2,4-dione
	TSCA 5(e) substance consent order: No products found.
	TSCA 8(a) PAIR: pentane-2,4-dione; 2-methoxy-1-methylethyl acetate
	TSCA 8(a) CDR Exempt/Partial exemption: Not determined
	TSCA 12(b) one-time export: pentane-2,4-dione
	United States inventory (TSCA 8b): All components are listed or exempted.
	Clean Water Act (CWA) 311: n-butyl acetate
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Listed
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Listed

SARA 302/304

Composition/information on ingredients

Γ				SARA 302 TPQ		SARA 304 RQ	
	Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
	No products were found.						

SARA 311/312

Date of previous issue

ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION (Fertility) - Category 1B TOXIC TO REPRODUCTION (Unborn child) - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract	Date of issue/Date of revision Date of previous issue	irritation) - Category 3 : 12/19/2022 : 12/19/2022	Version : 1.03 13/16	AkzoNobel
Classification · ELAMMABLE LIQUIDS - Category 2	Classification	ACUTE TOXICITY (derm ACUTE TOXICITY (inhala EYE IRRITATION - Cate CARCINOGENICITY - Ca TOXIC TO REPRODUCT TOXIC TO REPRODUCT	- Category 4 al) - Category 4 ation) - Category 4 gory 2A ategory 2 TION (Fertility) - Category 1B TION (Unborn child) - Category 1B	(Respiratory tract

Section 15. Regulatory information

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

Composition/information on ingredients

Name	%	Classification
4-methylpentan-2-one	≥25 - ≤45	FLAMMABLE LIQUIDS - Category 2
		ACUTE TOXICITY (inhalation) - Category 4
		EYE IRRITATION - Category 2A
		CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
pentane-2,4-dione	≥25 - ≤30	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (dermal) - Category 3
		ACUTE TOXICITY (inhalation) - Category 3
n-butyl acetate	≥10 - ≤20	FLAMMABLE LIQUIDS - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
	> 10 - 100	(Narcotic effects) - Category 3
2-methoxy-1-methylethyl acetate	≥10 - ≤20	FLAMMABLE LIQUIDS - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
dibut tip dilourate	<1	(Narcotic effects) - Category 3
dibutyltin dilaurate	<	SKIN CORROSION - Category 1C
		SERIOUS EYE DAMAGE - Category 1
		SKIN SENSITIZATION - Category 1
		GERM CELL MUTAGENICITY - Category 2
		TOXIC TO REPRODUCTION (Fertility) - Category 1B TOXIC TO REPRODUCTION (Unborn child) - Category 1B
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(thymus) - Category 1
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 1
		LAR OSUNCY - Calegory I

<u>SARA 313</u>

	Product name	CAS number	%
Form R - Reporting requirements	4-methylpentan-2-one	108-10-1	≥25 - ≤45
Supplier notification	4-methylpentan-2-one	108-10-1	≥25 - ≤45

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts	 The following components are listed: METHYL ISOBUTYL KETONE; 4-METHYL- 2-PENTANONE; 2,4-PENTANEDIONE; BUTYL ACETATE; N-BUTYL ACETATE
New York	: The following components are listed: Methyl isobutyl ketone; Hexone; Butyl acetate
New Jersey	 The following components are listed: METHYL ISOBUTYL KETONE; 2-PENTANONE, 4-METHYL-; PENTANE-2,4-DIONE; 2,4-PENTANEDIONE; n-BUTYL ACETATE; ACETIC ACID, BUTYL ESTER
Pennsylvania	 The following components are listed: 2-PENTANONE, 4-METHYL-; 2, 4-PENTANEDIONE; ACETIC ACID, BUTYL ESTER
<u>California Prop. 65</u>	

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

Ingredient name	•	Maximum acceptable dosage level
4-methylpentan-2-one	-	-

Inventory list

Date of issue/Date of revision	: 12/19/2022	Version : 1.03	
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Section 15. Regulatory information

control in the galaxies of the second s		
Australia	: All components are listed or exempted.	
Canada	: All components are listed or exempted.	
China	: All components are listed or exempted.	
Europe	: All components are listed or exempted.	
Japan	: Japan inventory (ENCS): All components are listed or exempted. Japan inventory (ISHL): All components are listed or exempted.	
Malaysia	: At least one component is not listed.	
New Zealand	: All components are listed or exempted.	
Philippines	: All components are listed or exempted.	
Republic of Korea	: All components are listed or exempted.	
Taiwan	: All components are listed or exempted.	
Thailand	: At least one component is not listed.	
Turkey	: All components are listed or exempted.	
Viet Nam	: At least one component is not listed.	

Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Procedure used to derive the classification

Classification	Justification	
FLAMMABLE LIQUIDS - Category 2	On basis of test data	
ACUTE TOXICITY (oral) - Category 4	Calculation method	
ACUTE TOXICITY (dermal) - Category 4	Calculation method	
ACUTE TOXICITY (inhalation) - Category 4	Calculation method	
EYE IRRITATION - Category 2A	Calculation method	
CARCINOGENICITY - Category 2	Calculation method	
TOXIC TO REPRODUCTION (Fertility) - Category 1B	Calculation method	
TOXIC TO REPRODUCTION (Unborn child) - Category 1B	Calculation method	
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method	
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Calculation method	
History	-	
Date of printing : 19 December 2022		
Date of issue/ Date of : 19 December 2022		

: 19 December 2022	
: 19 December 2022	
: 1.03	
	: 19 December 2022

Section 16. Other information

Key to abbreviations	: ATE = Acute Toxicity Estimate
-	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations

✓ Indicates information that has changed from previously issued version.

Notice to reader

FOR PROFESSIONAL USE ONLY

IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws. Any person using this product must determine for themselves, by preliminary tests or otherwise, the suitability of this product for their purposes. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Safety Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. The application, use and processing of AkzoNobel's products and the products manufactured by Buyer on the basis of AkzoNobel's technical advice are beyond AkzoNobel's control and, therefore, entirely Buyer's own responsibility. AkzoNobel makes no warranty as to accuracy and/ or sufficiency of such information and/or suggestions, as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. Nothing contained herein shall be construed as granting or extending any license under any patent. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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