

SAFETY DATA SHEET

THINNER P2 THINNER

Section 1. Identification of the hazardous chemical and of the supplier

Product identifier	: THINNER P2 THINNER
SDS code	: 15100000X

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

	Identified uses	
Thinner. Professional use Ind	ustrial use	
	Uses advised against	
All other uses		
Product use	: Thinner	
Supplier's details MAPAERO SAS 10, Avenue de la Rijole CS30 09103 PAMIERS Cedex France	0098	
e-mail address	: PSRA_PAMIERS@akzonobel.com	
Emergency telephone number (with hours of operation)	: +33 (0)5 34 01 34 01 +33 (0)5 61 60 23 30	

Section 2. Hazards identification

Classification of the	: FLAMMABLE LIQUIDS - Category 3
substance or mixture	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -
	Category 3

GHS label elements

Hazard pictograms



Signal word Hazard statements : Warning

: H226 - Flammable liquid and vapor.

H336 - May cause drowsiness or dizziness.

Precautionary statements



Section 2. Hazards identification

Prevention	 P210 - Keep away from heat, sparks and hot surfaces. No smoking. P241 - Use explosion-proof electrical, ventilating or lighting equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P261 - Avoid breathing vapor. 	
Response	P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.	
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 and international regulations.	
Other hazards which do not	None known.	

result in classification

Section 3. Composition and information of the ingredients of the hazardous chemical

Substance/mixture

: Mixture

Ingredient name	%	CAS number
p-butyl acetate	≥30 - ≤60	123-86-4
2-ethoxy-1-methylethyl acetate	≥10 - ≤30	54839-24-6
2-methoxy-1-methylethyl acetate	≥10 - ≤30	108-65-6
cyclohexanone	≥10 - ≤30	108-94-1

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 : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower Eye contact 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 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 : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse. Ingestion : Wash out mouth with water. Remove dentures if any. 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. Date of issue/Date of revision : 27-10-2022 Version : 2.01 AkzoNobel Date of previous issue :6-10-2022 2/11

Section 4. First aid measures

Most important symptoms/effects, acute and delayed

Potential acute	health effects
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Eye contact	No known significant effects or critical hazards.	
Inhalation	Can cause central nervous system (CNS) depression. May cause drowsines lizziness.	s or
Skin contact	No known significant effects or critical hazards.	
Ingestion	Can cause central nervous system (CNS) depression.	
<u>Over-exposure signs/symp</u>		
Eye contact	No specific data.	
Inhalation	Adverse symptoms may include the following: nausea or vomiting neadache Irowsiness/fatigue Iizziness/vertigo Inconsciousness	
Skin contact	No specific data.	
Ingestion	lo specific data.	
Indication of immediate med	attention and special treatment needed, if necessary	
Notes to physician	Freat symptomatically. Contact poison treatment specialist immediately if lar quantities have been ingested or inhaled.	ge
Specific treatments	No specific treatment.	
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable trainin s suspected that fumes are still present, the rescuer should wear an appropr	

providing aid to give mouth-to-mouth resuscitation.

mask or self-contained breathing apparatus. It may be dangerous to the person

 See toxicological information (Section 11)	
Section 5. Fire-fighting measures	

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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	: 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, protec	tive 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 co	ntainment 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 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 Avoid contact with eyes, skin and cloth with adequate ventilation. Wear appro- inadequate. Do not enter storage area ventilated. Keep in the original contain compatible material, kept tightly closed heat, sparks, open flame or any other i (ventilating, lighting and material handle Take precautionary measures against retain product residue and can be haze	ing. Avoid breathing vapor of priate respirator when ventila is and confined spaces unless er or an approved alternative I when not in use. Store and gnition source. Use explosion ing) equipment. Use only no electrostatic discharges. Em	or mist. Use only ation is ss adequately e made from a l use away from on-proof electrical on-sparking tools. npty containers
Advice on general : occupational hygiene	Eating, drinking and smoking should be handled, stored and processed. Worke eating, drinking and smoking. Remove equipment before entering eating areas information on hygiene measures.	ers should wash hands and f e contaminated clothing and	face before protective
Conditions for safe storage, : including any incompatibilities	area. Store in original container protect ventilated area, away from incompatible drink. Store locked up. Eliminate all ig materials. Keep container tightly close that have been opened must be careful leakage. Do not store in unlabeled cor	ore in accordance with local regulations. Store in a segregated and approved ea. Store in original container protected from direct sunlight in a dry, cool and well- entilated area, away from incompatible materials (see Section 10) and food and ink. Store locked up. Eliminate all ignition sources. Separate from oxidizing aterials. Keep container tightly closed and sealed until ready for use. Containers at have been opened must be carefully resealed and kept upright to prevent akage. Do not store in unlabeled containers. Use appropriate containment to roid environmental contamination. See Section 10 for incompatible materials fore handling or use.	
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Section 7. Handling and storage

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits	
n -butyl acetate	DOSH USECHH (Malaysia, 4/20 TWA: 713 mg/m ³ 8 hours. TWA: 150 bpj 8 hours.	00).
2-methoxy-1-methylethyl ad	EH40/2005 WELs (United Kingo 8/2018). Absorbed through skir	
	STEL: 548 mg/m ³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 274 mg/m ³ 8 hours. STEL: 100 ppm 15 minutes.	
cyclohexanone	DOSH USECHH (Malaysia, 4/20 Absorbed through skin. TWA: 100 mg/m ³ 8 hours. TWA: 25 bpj 8 hours.	00).
Appropriate engineering controls	Use only with adequate ventilation. Use process enclosures, local exha ventilation or other engineering controls to keep worker exposure to airb contaminants below any recommended or statutory limits. The enginee also need to keep gas, vapor or dust concentrations below any lower ex limits. Use explosion-proof ventilation equipment.	orne ring control:
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked they comply with the requirements of environmental protection legislatio cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.	n. In some
ndividual protection meas		
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical pro- eating, smoking and using the lavatory and at the end of the working pe Appropriate techniques should be used to remove potentially contamina Wash contaminated clothing before reusing. Ensure that eyewash static safety showers are close to the workstation location.	riod. Ited clothing
Eye/face protection	Safety eyewear complying with an approved standard should be used w assessment indicates this is necessary to avoid exposure to liquid splas gases or dusts. If contact is possible, the following protection should be unless the assessment indicates a higher degree of protection: safety g side-shields.	hes, mists, worn,
Skin protection		
Hand protection	Chemical-resistant, impervious gloves complying with an approved stan	dard shoul

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.



Section 8. Exposure controls/personal protection

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.

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Section 9. Physical and chemical properties

Physical state	:	Liquid.
Color	:	Colorless.
Odor	:	Characteristic.
Odor threshold	:	Not available.
рН	:	Not available.
Melting point/freezing point	:	Not available.
Initial boiling point and boiling range	:	Not available.
Flash point	:	Closed cup: 32°C
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Upper/lower flammability or explosive limits	:	Greatest known range: Lower: 1% Upper: 9.8% (2-ethoxy-1-methylethyl acetate)
Vapor pressure	:	Not available.
Vapor density	:	Highest known value: 4.6 (Air = 1) (2-methoxy-1-methylethyl acetate). Weighted average: 3.48 (Air = 1)
Density	:	0.915 g/cm³
Solubility(ies)	:	Insoluble in the following materials: cold water.
Partition coefficient: n-octanol/ water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	Kinematic (room temperature): 0.11 cm²/s Kinematic (40°C): 0.06 cm²/s

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.			
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Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
-butyl acetate	LC50 Inhalation Gas.	Rat	390 ppm	4 hours
	LC50 Inhalation Vapor	Mouse	6 g/m ³	2 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Intraperitoneal	Mouse	1230 mg/kg	-
	LD50 Oral	Guinea pig	4700 mg/kg	-
	LD50 Oral	Mouse	6 g/kg	-
	LD50 Oral	Rabbit	3200 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	-
cyclohexanone	LC50 Inhalation Gas.	Rat	8000 ppm	4 hours
-	LD50 Dermal	Rabbit	1 mL/kg	-
	LD50 Intraperitoneal	Guinea pig	930 mg/kg	-
	LD50 Intraperitoneal	Mouse	1230 mg/kg	-
	LD50 Intraperitoneal	Mouse	1230 mg/kg	-
	LD50 Intraperitoneal	Rabbit	1540 mg/kg	-
	LD50 Intraperitoneal	Rabbit	1540 mg/kg	-
	LD50 Intraperitoneal	Rat	1130 mg/kg	-
	LD50 Intraperitoneal	Rat	1130 mg/kg	-
	LD50 Oral	Mouse	1400 mg/kg	-
	LD50 Oral	Rat	1800 mg/kg	-
	LD50 Oral	Rat	1620 uL/kg	-
	LD50 Subcutaneous	Rat	2170 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
-butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
-	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
cyclohexanone	Eyes - Severe irritant	Rabbit	-	mg 24 hours 250	-
	Eyes - Severe irritant Skin - Mild irritant	Rabbit Rabbit	-	ug 20 mg 500 mg	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	·····	Route of exposure	Target organs
,	Category 3 Category 3 Category 3	-	Narcotic effects Narcotic effects Narcotic effects

Specific target organ toxicity (repeated exposure)

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Section 11. Toxicological information

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	:	No known significant effects or critical hazards.
Ingestion	:	Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: No specific data.
Ingestion	: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure		
Potential immediate effects	Not a	vailable.
Potential delayed effects	Not a	vailable.
<u>Long term exposure</u>		
Potential immediate effects	Not a	vailable.
Potential delayed effects	Not a	vailable.
Potential chronic health effe	<u>ts</u>	
Not available.		
General	No k	nown significant effects or critical hazards.
Carcinogenicity	No k	nown significant effects or critical hazards.
Mutagenicity	No k	nown significant effects or critical hazards.
Reproductive toxicity	No k	nown significant effects or critical hazards.



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Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
p-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
cyclohexanone	Acute EC50 32.9 mg/l Fresh water	Algae - Chlamydomonas reinhardtii - Exponential growth phase	72 hours
	Acute LC50 630000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 527000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 732000 µg/l Fresh water	Fish - Pimephales promelas	96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
p-butyl acetate	2.3	-	low
2-ethoxy-1-methylethyl acetate	0.76	-	low
2-methoxy-1-methylethyl acetate	1.2	-	low
cyclohexanone	0.86	-	low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

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

Section 13. Disposal information

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 nonrecyclable 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

	UN	IMDG	IATA	
UN number	UN1263	UN1263	UN1263	
UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	
Transport hazard class(es)	3	3	3	
Packing group	111	111	111	
Environmental hazards	No.	No.	No.	
Additional informat			1	
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 i the event of an accident or spillage.				

Transport in bulk according : Not available. to IMO instruments

Section 15. Regulatory information

National regulations

EHS Register

Not determined

Safety, health and	: Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of
environmental regulations	Hazardous Chemicals) Regulations 2013.
specific for the product	
	Occupational Safety and Health (Use and Standards of Exposure of Chemicals
	Hazardous to Health) Regulations 2000.

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.

Section 16. Other information

<u>History</u>	
Date of printing	: 27 October 2022
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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 = Internediate 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) N/A = Not available SGG = Segregation Group UN = United Nations

Procedure used to derive the classification

Classification	Justification
0 ,	On basis of test data Calculation method

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 the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. 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 Material 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. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. 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 the 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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