

SAFETY DATA SHEET

THINNER P2 THINNER

Section 1. Identifi GHS product identifier SDS code	cation : THINNER P2 THINNER : 15100000X
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SDS code	: 1510000X
Relevant identified uses of t	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 Rij	
09103 PAMIERS Ce	dex
France e-mail address	: PSRA_PAMIERS@akzonobel.com
Emergency telephone	: +33 (0)5 34 01 34 01
number (with hours of operation)	+33 (0)5 61 60 23 30
Section 2. Hazard	s identification
Classification of the	: FLAMMABLE LIQUIDS - Category 3
substance or mixture	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
CHS label elemente includi	ng precautionary statements
Hazard pictograms	

Signal word Hazard statements	 Warning H226 - Flammable liquid and vapor. H336 - May cause drowsiness or dizziness.
Precautionary statements	
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.

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Section 2. Hazards identification

- Storage
- Disposal

: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P235 - Keep cool.

: 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/information on ingredients

Substance/mixture

: Mixture

Ingredient name	%	CAS number
P-butyl acetate	≥50 - ≤75	123-86-4
2-ethoxy-1-methylethyl acetate	≥10 - ≤25	54839-24-6
2-methoxy-1-methylethyl acetate	≥10 - ≤25	108-65-6
cyclohexanone	≥10 - ≤25	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

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

Most important symptoms/effects, acute and delayed

Potential acute health effe	<u>cts</u>
Eye contact	: No known significant effects or critical hazards.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.

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Section 4. First aid measures

Section 4. First a	u 1116a5u165
Skin contact	: No known significant effects or critical hazards.
Ingestion	: Can cause central nervous system (CNS) depression.
Over-exposure signs/symp	<u>otoms</u>
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.
Indication of immediate med	dical 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.

See toxicological information (Section 11)

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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	: 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, protective equipment and emergency procedures

For non-emergency personnel	Evacuate surrounding area entering. Do not touch or v No flares, smoking or flam Provide adequate ventilation	nvolving any personal risk or without suitable training. as. Keep unnecessary and unprotected personnel from walk through spilled material. Shut off all ignition sources nes in hazard area. Avoid breathing vapor or mist. on. Wear appropriate respirator when ventilation is priate personal protective equipment.	3.
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Section 6. Accidental release measures

For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
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 equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
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.



Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name		E	Exposure limits	
r-butyl acetate cyclohexanone		lı N lı t	Minister of Labor of the ndonesia (Indonesia, 4/2 TWA: 50 BDS 8 hours. STEL: 150 BDS 15 minu Minister of Labor of the ndonesia (Indonesia, 4/2 hrough skin. STEL: 50 BDS 15 minute TWA: 20 BDS 8 hours.	2018). tes. Republic of 2018). Absorbed
Appropriate engineering controls	ventilation or contaminants also need to l	adequate ventilation. Use other engineering controls below any recommended keep gas, vapor or dust co kplosion-proof ventilation e	to keep worker exposure or statutory limits. The e incentrations below any lo	to airborne ngineering controls
Environmental exposure controls	they comply v cases, fume s	om ventilation or work proc vith the requirements of en scrubbers, filters or engine Il be necessary to reduce o	nvironmental protection le ering modifications to the	gislation. In some process
Individual protection measu	ires			
Hygiene measures	: Wash hands, eating, smoki Appropriate to Wash contam	forearms and face thoroug ng and using the lavatory a echniques should be used ninated clothing before reu rs are close to the worksta	and at the end of the work to remove potentially con sing. Ensure that eyewas	king period. taminated clothing.
Eye/face protection	assessment i gases or dust	ar complying with an appro ndicates this is necessary s. If contact is possible, th sessment indicates a high	to avoid exposure to liqui ne following protection sho	d splashes, mists, ould be worn,
Skin protection				
Hand protection	be worn at all this is necess check during should be not different for d	istant, impervious gloves of times when handling cher eary. Considering the para use that the gloves are still red that the time to breakth ifferent glove manufacture ances, the protection time	mical products if a risk as meters specified by the g Il retaining their protective prough for any glove mate ers. In the case of mixture	sessment indicates love manufacturer, properties. It rial may be es, consisting of
Body protection	being perform before handlin wear anti-stat	ective equipment for the b ned and the risks involved ng this product. When the ic protective clothing. For lothing should include anti-	and should be approved re is a risk of ignition fron the greatest protection fr	by a specialist n static electricity, om static
Other skin protection	: Appropriate for selected base	potwear and any additional ad on the task being perfor a specialist before handling	l skin protection measure med and the risks involve	s should be
Respiratory protection	: Based on the appropriate s	hazard and potential for e tandard or certification. Re otection program to ensure	xposure, select a respirat espirators must be used a	according to a
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Section 9. Physical and chemical properties

Appearance		
Physical state	iquid.	
Color	Colorless.	
Odor	Characteristic.	
Odor threshold	lot available.	
рН	lot available.	
Melting point/freezing point	lot available.	
Initial boiling point and	lot available.	
boiling range		
Flash point	Closed cup: 32°C	
Evaporation rate	lot available.	
Flammability (solid, gas)	lot available.	
Upper/lower flammability or	Greatest known range: Lower: 1% Upper: 9.8% (2-ethoxy-1-methylethyl ac	cetate)
explosive limits		
Vapor pressure	lot available.	
Vapor density	lighest known value: 4.6 (Air = 1) (2-methoxy-1-methylethyl acetate). Veighted average: 3.48 (Air = 1)	
Density	.915 g/cm³	
Solubility(ies)	nsoluble in the following materials: cold water.	
Partition coefficient: n-octanol/ water	ot available.	
Auto-ignition temperature	lot available.	
Decomposition temperature	lot available.	
Viscosity	inematic (room temperature): 0.11 cm²/s inematic (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.



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 Acute LC50 100000 µg/l Fresh water	Crustaceans - Artemia salina Fish - Lepomis macrochirus	48 hours 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 Acute LC50 527000 µg/l Fresh water Acute LC50 732000 µg/l Fresh water	Fish - Pimephales promelas Fish - Pimephales promelas Fish - Pimephales promelas	96 hours 96 hours 96 hours

Persistence/degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
-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 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 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		Ш	
Environmental hazards	No.	No.	No.	
Additional information				

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 : Not available. to IMO instruments

Section 15. Regulatory information

Safety, health and : Decree 23/M-IND/PER/4/2013 - SDS Format and Content (GHS) environmental regulations

specific for the product Law No. 74/2001 - Banned

None of the components are listed.

Law No. 74/2001 - Restricted

None of the components are listed.

Law No. 74/2001 - : Not determined

Chemicals that may be used

Ministry of Health - Law No. 472/Menkes/Per/V/1996

<u>Carcinogen</u>

None of the components are listed.

<u>Corrosive</u>

None of the components are listed.

Irritation

None of the components are listed.

<u>Mutagen</u>

None of the components are listed.

<u>Oxidizer</u>

None of the components are listed.

<u>Poison</u>

None of the components are listed.

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Section 15. Regulatory information

<u>Teratogen</u>

None of the components are listed.

Section 16. Other information

<u>History</u>	
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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 = International Air Transport Association IBC = 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
FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	On basis of test data Calculation method

✓ Indicates information that has changed from previously issued version.

<u>Disclaimer</u>

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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