Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830

•TRUSTED QUALITY SINCE 1921• SAFETY DATA SHEET

Brilliant Metallics

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

1.1 Product identifier	
Product name	: Brilliant N
Product description	: Paint.

IST-OLEUM

Vetallics

: Aerosol.

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

Identified uses

Industrial use
Professional use
Consumer use

Product type

1.3 Details of the supplier of the safety data sheet

Rust-Oleum Corporation Portobello Industrial Estate Birtley County Durham United Kingdom DH3 2RE Telephone no.: +44 (0) 191 4106611 Fax no.: +44 (0) 191 4920125 e-mail address of person : rpmeurohas@ro-m.com

1.4 Emergency telephone number

responsible for this SDS

<u>Supplier</u>	
Telephone number	: +44 (0) 207 858 1228
Hours of operation	: 24/7

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Aerosol 1, H222, H229 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT SE 3, H336 STOT RE 2, H373 Aquatic Chronic 3, H412

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

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

SECTION 2: Hazards identification

Hererd nieto gramo	
Hazard pictograms	
Signal word	: Danger
Hazard statements	 Extremely flammable aerosol. Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects. Pressurized container: may burst if heated.
Precautionary statements	
General	 P103 - Read label before use. P102 - Keep out of reach of children. P101 - If medical advice is needed, have product container or label at hand.
Prevention	 P211 - Do not spray on an open flame or other ignition source. P210 - Keep away from heat, sparks, open flames and hot surfaces No smoking P271 - Use only outdoors or in a well-ventilated area. P260 - Do not breathe vapour or spray. P280 - Wear protective clothing and eye or face protection. P273 - Avoid release to the environment. P251 - Do not pierce or burn, even after use.
Response	 P302 - IF ON SKIN: P353 - Rinse skin with water or shower. P305 - IF IN EYES: P351 - Rinse cautiously with water for several minutes. P338 - Remove contact lenses, if present and easy to do. Continue rinsing. P337 - If eye irritation persists: P313 - Get medical attention. P312 - Call a doctor if you feel unwell.
Storage	 P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C. P405 - Store locked up.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	: acetone xylene (mixture of isomeres) hydrocarbons, aromatic, C9
Supplemental label elements	: Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Special packaging requirem	<u>ients</u>
Containers to be fitted with child-resistant fastenings	: Not applicable.
Tactile warning of danger	: Yes, applicable.

2.3 Other hazards

SECTION 2: Hazards identification

Other hazards which do : Non not result in classification

: None known.

SECTION 3: Composition/information on ingredients

3.2	Mixtures
U.	inixtui 00

: Mixture

			Classification	
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
Petroleum gases, liquefied	EC: 270-704-2	≥25 - <50	Flam. Gas 1, H220	[2]
	CAS: 68476-85-7			
acetone	Index: 649-202-00-6 REACH #:	≥10 - <25	Flam. Lig. 2, H225	[1] [2]
	01-2119471330-49			
	EC: 200-662-2		Eye Irrit. 2, H319	
	CAS: 67-64-1		STOT SE 3, H336	
xylene (mixture of	Index: 606-001-00-8 REACH #:	≥10 - <25	EUH066 Flam. Liq. 3, H226	[1] [2]
isomeres)	01-2119488216-32	210- 23		1
,	EC: 215-535-7		Acute Tox. 4, H312	
	CAS: 1330-20-7		Acute Tox. 4, H332	
			Skin Irrit. 2, H315	
			Eye Irrit. 2, H319 STOT SE 3, H335	
			STOT RE 2, H373	
			Asp. Tox. 1, H304	
hydrocarbons,	REACH #:	≥10 - <25	Flam. Liq. 3, H226	[1]
aromatic, C9	01-2119455851-35 EC: 918-668-5		STOT SE 3, H335	
	Index: 649-356-00-4		STOT SE 3, H336	
			Asp. Tox. 1, H304	
			Aquatic Chronic 2, H411	
1-methoxy-2-propanol	REACH #:	≥3 - <5	EUH066 Flam. Liq. 3, H226	[1] [2]
	01-2119457435-35	-0 0		
	EC: 203-539-1		STOT SE 3, H336	
	CAS: 107-98-2			
n-butyl acetate	Index: 603-064-00-3 REACH #:	≥3 - <5	Flam. Lig. 3, H226	[1] [2]
	01-2119485493-29	-0 0		
	EC: 204-658-1		STOT SE 3, H336	
	CAS: 123-86-4		EUH066	
aluminium powder	Index: 607-025-00-1 EC: 231-072-3	≥1 - <3	Flam. Sol. 1, H228	[2]
(stabilized)		-1 0		
	CAS: 7429-90-5		Water-react. 2, H261	
othylhonzono	Index: 013-002-00-1	≥1 - <3	Flom Lin 2 H225	[1] [2]
ethylbenzene	REACH #: 01-2119489370-35	21-<0	Flam. Liq. 2, H225	['][~]
	EC: 202-849-4		Acute Tox. 4, H332	
	CAS: 100-41-4		STOT RE 2, H373 (hearing organs)	
	Index: 601-023-00-4		Asp. Tox. 1, H304	[4] [0]
toluene	REACH #: 01-2119471310-51	≥0.1 - <0.3	Flam. Liq. 2, H225	[1] [2]
	EC: 203-625-9		Skin Irrit. 2, H315	
	CAS: 108-88-3		Repr. 2, H361d (Unborn child)	
	Index: 601-021-00-3		STOT SE 3, H336	
			STOT RE 2, H373 Asp. Tox. 1, H304	
			$\neg 2 \gamma$. 107. 1, 1304	
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SECTION 3: Composition/information on ingredients

	See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

<u>Туре</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General	:	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
Eye contact	:	Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	:	Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	:	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	:	If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
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.

4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

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

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

4.3 Indication of any immediate medical attention and special treatment needed		
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 	
Specific treatments	: No specific treatment.	

SECTION 4: First aid measures

See toxicological information (Section 11)

SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	:	Recommended: alcohol-resistant foam, CO ₂ , powders, water spray.
Unsuitable extinguishing media	:	Do not use water jet.
5.2 Special hazards arising f	fron	n the substance or mixture
Hazards from the substance or mixture	;	Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.
5.3 Advice for firefighters		
Special protective actions for fire-fighters	;	Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.
Special protective equipment for fire-fighters		Appropriate breathing apparatus may be required.
Additional information	;	Container explosion may occur under fire conditions or when heated. Bursting aerosol containers may be propelled from a fire at high speed.

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	οte	ctive equipment and emergency procedures
For non-emergency personnel	:	Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilt 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). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and material for	со	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 the 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.
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SECTION 7: Handling and storage

The information in this section contains generic advice and guidance.

7.1 Precautions for safe handling	 Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel. Always keep in containers made from the same material as the original one. Comply with the health and safety at work laws. Do not allow to enter drains or watercourses. Information on fire and explosion protection Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent
	during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

Additional information on storage conditions

Observe label precautions. Do not store above the following temperature: 35°C (95°F). Store in a dry, cool and wellventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Seveso Directive - Reporting thresholds (in tonnes)

Named substances

	Notification and MAPP threshold	Safety report threshold
LPG	50	200

Danger criteria

	Notification and MAPP threshold	Safety report threshold
P3a: Flammable aerosols containing flammable gases or flammable liquids	150	500

7.3 Specific end use(s)

- : Not available.
- **Recommendations** Industrial sector specific solutions
- : Not available.

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Petroleum gases, liquefied	EH40/2005 WELs (United Kingdom (UK), 12/2011).
	STEL: 2180 mg/m ³ 15 minutes.
	STEL: 1250 ppm 15 minutes.
	TWA: 1750 mg/m ³ 8 hours.
	TWA: 1000 ppm 8 hours.
acetone	EH40/2005 WELs (United Kingdom (UK), 12/2011).
	STEL: 3620 mg/m ³ 15 minutes.
	STEL: 1500 ppm 15 minutes.
	TWA: 500 ppm 8 hours.
	TWA: 1210 mg/m ³ 8 hours.
xylene (mixture of isomeres)	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed
	through skin.
	STEL: 441 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 220 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
1-methoxy-2-propanol	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed
r mouloxy 2 propulsi	through skin.
	STEL: 560 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 375 mg/m ³ 8 hours.
a butul apatata	TWA: 100 ppm 8 hours.
n-butyl acetate	EH40/2005 WELs (United Kingdom (UK), 12/2011).
	STEL: 966 mg/m ³ 15 minutes.
	STEL: 200 ppm 15 minutes.
	TWA: 724 mg/m ³ 8 hours.
	TWA: 150 ppm 8 hours.
aluminium powder (stabilized)	EH40/2005 WELs (United Kingdom (UK), 12/2011).
	TWA: 10 mg/m ³ 8 hours. Form: inhalable dust
	TWA: 4 mg/m ³ 8 hours. Form: respirable dust
ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed
	through skin.
	STEL: 552 mg/m ³ 15 minutes.
	STEL: 125 ppm 15 minutes.
	TWA: 441 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
toluene	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed
	through skin.
	STEL: 384 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 191 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
Recommended monitoring : If this proc	duct contains ingredients with exposure limits, personal, workplace
	re or biological monitoring may be required to determine the effectivene
	tilation or other control measures and/or the necessity to use respiratory
	equipment. Reference should be made to monitoring standards, such
	ing: European Standard EN 689 (Workplace atmospheres - Guidance f
	sment of exposure by inhalation to chemical agents for comparison with
	is and measurement strategy) European Standard EN 14042 (Workplace
	res - Guide for the application and use of procedures for the assessment
	re to chemical and biological agents) European Standard EN 482
	ce atmospheres - General requirements for the performance of procedu
for the me	easurement of chemical agents) Reference to national guidance
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SECTION 8: Exposure controls/personal protection

documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
1-methoxy-2-propanol	DNEL	Short term	553.5 mg/	Workers	Local
		Inhalation	m³		
	DNEL	Long term Inhalation	369 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	50.6 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	43.9 mg/m ³	Consumers	Systemic
	DNEL	Long term Dermal	18.1 mg/ kg bw/day	Consumers	Systemic
	DNEL	Long term Oral	3.3 mg/kg bw/day	Consumers	Systemic
n-butyl acetate	DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Oral, Dermal	3.4 mg/kg bw/day	Consumers	Systemic
	DNEL	Short term Inhalation	960 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	960 mg/m³	Workers	Local
	DNEL	Long term Inhalation	480 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	480 mg/m³	Workers	Local
	DNEL	Short term Inhalation	859.7 mg/ m³	Consumers	Systemic
	DNEL	Short term Inhalation	859.7 mg/ m ³	Consumers	Local
	DNEL	Long term Inhalation	102.34 mg/	Consumers	Systemic
	DNEL	Long term Inhalation	102.34 mg/ m ³	Consumers	Local

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
1-methoxy-2-propanol	Fresh water	10 mg/l	-
	Fresh water sediment	41.6 mg/l	-
	Marine water sediment	4.17 mg/l	-
	Soil	2.47 mg/l	-
	Sewage Treatment Plant	100 mg/l	-
n-butyl acetate	Fresh water	0.18 mg/l	-
	Marine	0.018 mg/l	-
	Fresh water sediment	0.981 mg/kg	-
	Marine water sediment	0.0981 mg/kg	-
	Soil	0.0903 mg/kg	-
	Sewage Treatment Plant	35.6 mg/l	-

8.2 Exposure controls

Appropriate engineering controls

: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

Individual protection measures

ECTION 8: Exposu	re 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. Recommended: safety glasses with side-shields (EN 166).
Skin protection	
Hand protection	
combination of chemica The breakthrough time r The instructions and info replacement must be fo Gloves should be replac Always ensure that glov The performance or effe maintenance.	nust be greater than the end use time of the product. rmation provided by the glove manufacturer on use, storage, maintenance and
Gloves	: For prolonged or repeated handling, use the following type of gloves:
	Recommended: gloves , neoprene (EN 374) .
	The recommendation for the type or types of glove to use when handling this product is based on information from the following source: EN 374-3 : 2003
	The user must check that the final choice of type of glove selected for handling thi product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods. Recommended: Wear overalls or long sleeved shirt. (EN 1149-1)
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	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection mu be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: organic vapour (Type A) and particulate filter (EN 140).
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensu they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process

cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

l and chemical properties
: Liquid. [Aerosol.]
: Various
: Hydrocarbon.
: Not available.
: Closed cup: -70°C
: >1 (butyl acetate = 1)
 Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat. Slightly flammable in the presence of the following materials or conditions: shocks and mechanical impacts. Container explosion may occur under fire conditions or when heated. Vapour may travel a considerable distance to source of ignition and flash back.
: Lower: 0.8% Upper: 13%
: >400 kPa [room temperature]
: >1 [Air = 1]
: 0.73
: Partially soluble in the following materials: cold water and hot water.
: Not available.
: 350°C
: Not available.
: Not available.
: Highly explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts.
: Not available.
: Spray
: 8.975 kJ/g

SECTION 10: Stability and reactivity

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10.4 Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products.	
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.	
10.2 Chemical stability	: Stable under recommended storage and handling conditions (see Section 7).	
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.	

SECTION 10: Stability and reactivity

10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.	
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced. If involved in a fire, toxic gases including CO, CO2 and smoke can be generated.	

SECTION 11: Toxicological information

11.1 Information on toxicological effects

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

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

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
acetone	LD50 Oral	Rat	5800 mg/kg	-
xylene (mixture of isomeres)	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LC50 Inhalation Gas.	Rat	6670 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
	TDLo Dermal	Rabbit	4300 mg/kg	-
hydrocarbons, aromatic, C9	LD50 Oral	Mouse	8400 mg/kg	-
-	LD50 Oral	Rat	8400 mg/kg	-
1-methoxy-2-propanol	LC50 Inhalation Vapour	Rat	55000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	6600 mg/kg	-
n-butyl acetate	LC50 Inhalation Vapour	Rat	>21 mg/l	4 hours
	LC50 Inhalation Vapour	Rat	9700 mg/m ³	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	14000 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	50000 mg/m ³	2 hours
-	LCLo Inhalation Vapour	Rat	4000 ppm	4 hours
	LD50 Oral	Rat	3500 mg/kg	-
toluene	LC50 Inhalation Vapour	Rat	49 g/m³	4 hours

Conclusion/Summary : Not available.

Acute toxicity estimates

Not available.

Irritation/Corrosion

SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observatio
acetone	Eyes - Mild irritant	Human	-	186300 parts per million	-
	Eyes - Mild irritant	Rabbit	_	10 microliters	-
	Eyes - Moderate irritant	Rabbit	_	24 hours 20	-
				milligrams	
	Eyes - Severe irritant	Rabbit	-	20 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				milligrams	
	Skin - Mild irritant	Rabbit	-	395	-
vilana (mixtura of icomoroa)	Even Mild irritent	Rabbit		milligrams	
ylene (mixture of isomeres)	Eyes - Mild irritant Eyes - Severe irritant	Rabbit	-	87 milligrams 24 hours 5	-
	Eyes - Severe Imani	Rabbit	-	milligrams	-
	Skin - Mild irritant	Rat	-	8 hours 60	
		Ital	-	microliters	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	_
		Rabbit		milligrams	
	Skin - Moderate irritant	Rabbit	-	100 Percent	-
ydrocarbons, aromatic, C9	Eyes - Mild irritant	Rabbit	_	24 hours 100	-
		Rabbit		microliters	
1-methoxy-2-propanol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				milligrams	
	Skin - Mild irritant	Rabbit	-	500	-
				milligrams	
n-butyl acetate	Eyes - Moderate irritant	Rabbit	-	100	-
,	5			milligrams	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				milligrams	
	Skin - Primary dermal irrita	tion Rabbit	0	-	-
	index (PDII)	Dabbit	4		
thulbonzono	Eyes - Cornea opacity Eyes - Severe irritant	Rabbit Rabbit	1	- 500	-
ethylbenzene	Eyes - Severe Imani	Rabbit	-	milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 15	_
		Rabbit	_	milligrams	-
oluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes	_
oldene		Rabbit		100	
				milligrams	
	Eyes - Mild irritant	Rabbit	_	870	-
		i kabbit		Micrograms	
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
	,			milligrams	
	Skin - Mild irritant	Pig	-	24 hours 250	-
		Ũ		microliters	
	Skin - Mild irritant	Rabbit	-	435	-
				milligrams	
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				milligrams	
	Skin - Moderate irritant	Rabbit	-	500	-
				milligrams	
Conclusion/Summary	: Not available.	· · · ·			
ensitisation					
	Net evelople				
Conclusion/Summary	: Not available.				
lutagenicity	· · ·				
Product/ingredient name	Test	Experim	ent		Result
nydrocarbons, aromatic, C9	OECD 471 S	Subject: Bacteria		Negativ	/e
Conclusion/Summary	: Not available.				

Carcinogenicity

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SECTION 11: Toxicological information

Conclusion/Summary : Not available.

Re	proc	luctive	e toxicity

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
hydrocarbons, aromatic, C9	-	-	0	Mammal - species unspecified	Unreported	-

Conclusion/Summary

Teratogenicity

: Not available.

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
acetone xylene (mixture of isomeres)	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Respiratory tract
	Calegory 3	Not applicable.	irritation
hydrocarbons, aromatic, C9	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
1-methoxy-2-propanol	Category 3	Not applicable.	Narcotic effects
n-butyl acetate	Category 3	Not applicable.	Narcotic effects
toluene	Category 3	Not applicable.	Narcotic effects

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	Not determined	Not determined hearing organs Not determined

Aspiration hazard

Product/ingredient name	Result
xylene (mixture of isomeres)	ASPIRATION HAZARD - Category 1
hydrocarbons, aromatic, C9	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1
toluene	ASPIRATION HAZARD - Category 1

Other information

: Not available.

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

Product/ingredient name	Result	Species	Exposure
acetone	Acute LC50 8.64 to 8098 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 7.88 to 7280 mg/l Fresh water	Fish - Pimephales promelas	96 hours
1-methoxy-2-propanol	Acute EC50 >1000 mg/l	Algae - Selenastrum capricomutum	7 days
	Acute LC50 23300 mg/l	Daphnia spec.	96 hours
	Acute LC50 20800 mg/l	Fish	96 hours
n-butyl acetate	Acute EC10 956 mg/l	Bacteria - Pseudomonas putida	18 hours
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SECTION 12: Ecological information

	Acute EC50 648 mg/l	Algae - Desmodesmus	72 hours
		subspicatus	
	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina - Nauplii	48 hours
	Acute LC50 18 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 62 mg/l	Fish - Danio rerio	96 hours
ethylbenzene	Acute EC50 3600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 9.46 to 6530 µg/l Fresh water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute EC50 4.4 to 2970 µg/l Fresh water	Daphnia spec Daphnia magna - Neonate	48 hours
	Acute LC50 13.7 to 8780 µg/l Fresh water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute LC50 5200 µg/l Marine water	Crustaceans - Americamysis bahia	48 hours
	Acute LC50 11 to 9090 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 1000 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
toluene	Acute EC50 433 ppm Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 12.5 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 6 mg/l Fresh water	Daphnia spec Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 15.5 ppm Marine water	Crustaceans - Palaemonetes pugio - Adult	48 hours
	Acute LC50 5.5 mg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 500 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Chronic NOEC 1000 µg/l Fresh water	Daphnia spec Daphnia magna	21 dov/0

Conclusion/Summary

: Not available.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
xylene (mixture of isomeres)		90 % - Readily - 5 days	-	-
1-methoxy-2-propanol	OECD 301E	96 % - Readily - 28 days >90 % - Readily - 5 days	- 1.95 qO₂/g	-
			ThOD	
	OECD 301C	88 to 92 % - Readily - 28 days	-	-
n-butyl acetate	-	90 % - Readily - 28 days	-	-
Conclusion/Summary	: Not available.			

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
acetone xylene (mixture of isomeres) hydrocarbons, aromatic, C9 1-methoxy-2-propanol n-butyl acetate ethylbenzene	- - Fresh water <28 days, 5 to 25°C - -	- - - - -	Readily Readily Readily Readily Readily Readily

12.3 Bioaccumulative potential

SECTION 12: Ecological information			
Product/ingredient name	LogPow	BCF	Potential
acetone	-0.27 to 0.58	-	low
xylene (mixture of isomeres)	3,16	-	low
hydrocarbons, aromatic, C9	3.7 to 4.5	-	high
1-methoxy-2-propanol	-0,49	<100	low
n-butyl acetate	2,3	10	low
ethylbenzene	3,2	_	low
toluene	2,6	8,317637711	low

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: This product is likely to volatilise rapidly into the air because of its high vapour pressure.
12.5 Results of PBT and	I vPvB assessment
PRT	• Not applicable

PBT	: Not applicable.
vPvB	: Not applicable.

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

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance.

13.1 Waste treatment methods

Product		
Methods of disposal	:	The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	:	Yes.
Disposal considerations	:	Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

European waste catalogue (EWC)

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

Waste code	Waste designation			
20 01 27*	paint, inks, adhesives and resins containing dangerous substances			
Packaging				
Methods of disposal	 The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 			
Disposal considerations	 Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions. 			

SECTION 13: Disposal considerations

Special precautions

÷. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ATA
14.1 UN number	UN 1950	UN 1950	UN 1950	UN 1950
14.2 UN proper shipping name	Aerosols, flammable [Limited quantity]	Aerosols, flammable [Limited quantity]	Aerosols, flammable [Limited quantity]	Aerosols, flammable [Limited quantity]
14.3 Transport hazard class(es)	2	2	2.1	2.1
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	Limited quantity: LQ2 Remarks: (≤ 1L:) Limited Quantity - ADR/IMDG 3.4 ADR Tunnel code: (D)		Emergency schedules (EmS): F-D + S-U Remarks: Limited Quantity - ADR/IMDG 3.4	Passenger and Cargo Aircraft Quantity limitation: 75 kg Packaging instructions: 203 Cargo Aircraft Only Quantity limitation: 150 kg Packaging instructions: 203 Limited Quantities - Passenger Aircraft Quantity limitation: 30 kg Packaging instructions: Y 203

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

SECTION 15: Regulatory information

•		•	
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.	
Other EU regulations			
VOC for Ready-for-Use Mixture		Not applicable.	
Europe inventory	1	All components are	e listed or exempted.
Priority List Chemicals (793/93/EEC)	:	Listed	
Integrated pollution prevention and control list (IPPC) - Air	-	Listed	
Integrated pollution prevention and control list (IPPC) - Water	:	Listed	
Dreduct/ingradient neme		arainagania	Mutagania offecto

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
toluene	-	-	Repr. 2, H361d (Unborn child)	-

Aerosol dispensers



2



Extremely flammable

Seveso Directive

This product is controlled under the Seveso Directive.

Named substances

Name		
LPG		
Danger criteria		
Category		

P3a: Flammable aerosols containing flammable gases or flammable liquids

References

: EH40/2005 Workplace exposure limits Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

SECTION 15: Reg	ulatory information
Not listed.	
Rotterdam Convention	<u>on Prior Inform Consent (PIC)</u>
Not listed.	
UNECE Aarhus Protoco	I on POPs and Heavy Metals
Not listed.	
CN code : 3208 10	0 90
International lists	
National inventory	
Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Japan	: Not determined.
Malaysia	: Not determined.
New Zealand	: Not determined.
Philippines	: At least one component is not listed.
Republic of Korea	: Not determined.
Taiwan	: Not determined.
United States	: Not determined.

15.2 Chemical Safety

: No Chemical Safety Assessment has been carried out.

Assessment

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Aerosol 1, H222, H229	Expert judgment
Skin Irrit. 2, H315	Expert judgment
Eye Irrit. 2, H319	Expert judgment
STOT SE 3, H335	Expert judgment
STOT SE 3, H336	Expert judgment
STOT RE 2, H373	Expert judgment
Aquatic Chronic 3, H412	Expert judgment

Full text of H-phrases referred to in sections 2 and 3

SECTION 16: Other	info	ormation	
Full text of abbreviated H		H220	Extremely flammable gas.
statements		H222, H229	Extremely flammable aerosol. Pressurized container:
		11222, 11223	may burst if heated.
		H225	Highly flammable liquid and vapour.
		H226	Flammable liquid and vapour.
		H228	Flammable solid.
		H261	In contact with water releases flammable gases.
		H304	May be fatal if swallowed and enters airways.
		H312 (dermal)	Harmful in contact with skin.
		H315	Causes skin irritation.
		H319	Causes serious eye irritation.
		H332 (inhalation)	Harmful if inhaled.
		H335	May cause respiratory irritation.
		H336	May cause drowsiness or dizziness.
		H361d (Unborn child)	Suspected of damaging the unborn child.
		H373	May cause damage to organs through prolonged or
			repeated exposure.
		H373 (hearing organs)	May cause damage to organs through prolonged or
			repeated exposure. (hearing organs)
		H411	Toxic to aquatic life with long lasting effects.
		H412	Harmful to aquatic life with long lasting effects.
Full text of classifications	:	Acute Tox. 4, H312	ACUTE TOXICITY (dermal) - Category 4
CLP/GHS]		Acute Tox. 4, H332	ACUTE TOXICITY (inhalation) - Category 4
		Aerosol 1, H222, H229	AEROSOLS - Category 1
		Aquatic Chronic 2, H411	LONG-TERM AQUĂTIC HAZARD - Category 2
		Aquatic Chronic 3, H412	
		Asp. Tox. 1, H304	ASPIRATION HAZARD - Category 1
		EUH066	Repeated exposure may cause skin dryness or cracking
		Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
		Flam. Gas 1, H220	FLAMMABLE GASES - Category 1
		Flam. Liq. 2, H225	FLAMMABLE LIQUIDS - Category 2
		Flam. Liq. 3, H226	FLAMMABLE LIQUIDS - Category 3
		Flam. Sol. 1, H228	FLAMMABLE SOLIDS - Category 1
		Repr. 2, H361d (Unborn child)	TOXIC TO REPRODUCTION (Unborn child) - Category
		Skin Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2
		STOT RE 2, H373	SPECIFIC TARGET ORGAN TOXICITY (REPEATED
			EXPOSURE) - Category 2
		STOT RE 2, H373	SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		(hearing organs)	EXPOSURE) (hearing organs) - Category 2
		STOT SE 3, H335	SPECIFIC TARGET ORGAN TOXICITY (SINGLE
			EXPOSURE) (Respiratory tract irritation) - Category 3
		STOT SE 3, H336	SPECIFIC TARGET ORGAN TOXICITY (SINGLE
			EXPOSURE) (Narcotic effects) - Category 3
		Water-react. 2, H261	SUBSTANCES AND MIXTURES, WHICH IN CONTACT WITH WATER, EMIT FLAMMABLE GASES - Category 2
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Notice to reader

SECTION 16: Other information

The information in this Safety Data Sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.