

Made in the Kingdom of Bahrain



Omega Unicryl Therma (Heat-Reflective Coating)

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

1.1 Product Identifier

Product Name	Omega Unicryl Therma
Product Codes	4016 Therma
Product Description	Waterborne Paint
Product Type	Liquid
Other means of identification	Not available

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

Use in coatings - Consumer use : Apply this product only as specified on the label

1.3 Details of the supplier of the safety data sheet

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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]	Skin Sens. 1, H317 Short-term (acute) AQUATIC HAZARD - Category 3 Long-term (chronic) AQUATIC HAZARD - Category 3 The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended. See Section 11 for details on health effects and symptoms

2.2 Label elements

Hazard pictograms		
Signal word :	Warning	
Hazard statements	H317 - May cause an allergic skin reaction. H412- Harmful to aquatic life with long lasting effects.	

Precautionary statements

General	P102 - Keep out of reach of children.
Prevention	P280 - Wear protective gloves. P273 - Avoid release to the environment. P261 - Avoid breathing vapor
Response	P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - If on skin : Wash with plenty of soap and water. P333 + P313 - If skin irritation or rash occurs : Get medical attention.
Storage	Not applicable
Disposal	P501 - Dispose of contents and container in accordance with all local, regional, national, and international regulations

Section 3 : Composition / information on ingredients

3.1 Mixtures

	Identifiers (Weight %)	CAS number
Ingredient Name	Ammonia < 0.5 IPBC <0.1	1336-21-6 55406-53-6

There are no 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.

- [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
- [4] Substance meets criteria for vPvB according to Regulation (EC) No. 1907/2006
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

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	Immediately flush eyes with plenty of water, remove contact lenses, irrigate copiously with clean, fresh water. Continue to rinse for at least 10 minutes and seek immediate medical advice if irritation occurs.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 recognized skin cleanser. Do NOT use solvents or thinners. Get medical attention.

Section 4 : First aid measures

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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects and Over-exposure signs/symptoms

Eye Contact	No specific data
Inhalation	No specific data
Skin Contact	Adverse symptoms may include irritation and redness
Ingestion	No specific data

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 treatment	No specific treatment

See toxicological information (Section 11)

Section 5 : Firefighting measures

5.1 Extinguishing media

Suitable	Use an extinguishing agent suitable for the surrounding fire
Unsuitable	None known

5.2 Special hazards arising from the substance or mixture

Substance / Mixture	Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.
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Section 5 : Firefighting measures

Combustion products	Decomposition products may include the following materials : carbon monoxide, carbon dioxide, smoke, oxides of nitrogen
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5.3 Advice for firefighters

Special actions	Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.
Special equipment	Appropriate breathing apparatus may be required.

Section 6 : Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Non-emergency personnel	Exclude sources of ignition and ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8
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 "non-emergency personnel".

6.2 Environmental precautions

Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

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. Preferably clean with a detergent. Avoid using solvents.

Section 7 : Handling and storage

7.1 Precautions for safe handling

Due to the organic solvents content of the mixture:

- Prevent the creation of flammable or explosive concentration of vapors in air and avoid vapor concentrations higher than the occupational exposure limits.

Section 7 : Handling and storage

Due to the organic solvents content of the mixture:

- In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.
- 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.

Information on fire and explosion protection

Vapors are heavier than air and may spread along floors. Vapors 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 vapor 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 vapor concentration has fallen below the exposure limits.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

Note on Joint Storage : Keep away from oxidizing agents, strong alkalis, strong acids.

Additional Information on Storage Conditions : Observe label precautions. Store in dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep container tightly closed. Keep away from sources of ignition. No smoking.

7.3 Specific end use(s)

Recommendations	Not available
Industrial sector specific solutions	Not available

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

Section 8 : Exposure controls / personal protection

8.1 Control parameters

No Occupational exposure limit value known

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 vapors below the OEL, suitable respiratory protection must be worn.

Individual protection measures

Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	Safety eyewear complying to EN 166 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: safety glasses with side-shields.
Skin protection	
Gloves	There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance. Wear suitable gloves tested to EN374 with recommended breakthrough time of >8 hours: PVC and 4-8 hours PVA.

Section 8 : Exposure controls / personal protection

Glove Material	For the right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves. The user must check that the final choice of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Body Protection	Personnel should wear antistatic clothing made of natural fibers or of high-temperature-resistant synthetic fibres.
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	If workers are exposed to concentrations above the exposure limit, they must use a respirator according to EN 140. Use respiratory mask with charcoal and dust filter when spraying this product, according to EN 14387 (as filter combination A2-P2). In confined spaces, use compressed-air or fresh-air respiratory equipment. When use of roller or brush, consider use of charcoal filter.
Environment exposure controls	Do not allow to enter drains or watercourses.

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.

Section 9 : Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	
Physical State	Liquid
Color	Various colors
Odour	Characteristic
Odour threshold	Not applicable
pH	8 to 10.5
Freezing point	0
Boiling point	Lowest known value: 100°C (212°F). Weighted average: 107°C (225°F)
Flash point	Not available
Evaporation rate	Highest known value: 0.36 (water) Weighted average: 0.35 compared with butyl-acetate
Flammability	Not applicable
Flammability limits	0.5 - 12.5%
Vapor pressure	Highest known value: 3.2 kPa (23.8 mm Hg) (at 20°C) (water) Weighted average: 3.02 kPa (22.65 mm Hg) (at 20°C)
Vapor density	Highest known value: 7.5 (Air=1) Weighted average: 5.5 (Air=1)
Density	1.10 - 2.00 g/cm ³
Solubility	Easily soluble in the following materials: cold water and hot water

Section 10 : Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients

10.2 Chemical stability

Stable under recommended storage and handling conditions (see Section 7)

10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

When exposed to high temperatures may produce hazardous decomposition products.

10.5 Incompatible materials

Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

10.6 Hazardous decomposition products

Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen

Section 11 : Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

Product / ingredient	Result (Species)	Dose (Exposure)
Ammonia	LD50 Oral (Rat)	350 mg/kg
IPBC	LD50 Oral (Rat)	50 mg/kg

Irritation/Corrosion

Product / ingredient	Result (Species)	Dose (Exposure)
Ammonia	Eyes - Severe irritant (Rabbit)	250 micrograms (0.5 minutes)
IPBC	Eyes - Irritant (Mammal-species)	

Section 11 : Toxicological Information

Sensitization

Product / ingredient	Result (Species)	Dose (Exposure)
IPBC	Skin - Sensitizing (Mammal)	-

Mutagenicity

No known significant effects or critical hazards

Carcinogenicity

No known significant effects or critical hazards

Reproductive toxicity

No known significant effects or critical hazards on developmental and/or fertility effects

Teratogenicity

No known significant effects or critical hazards

Specific target organ toxicity (single exposure)

Ammonia, Category 3
Target organs = Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

IPBC, Category 1
Target organs = Trachea

Aspiration hazard

Not available

Section 12 : Ecological Information

12.1 Toxicity

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is not classified as hazardous to the environment, but may contain substance(s) hazardous to the environment. See Section 3 for details.

Product / ingredient	Result (Species)	Dose (Exposure)
Ammonia	Acute / Fresh Water Fish	96 hours
IPBC	Chronic / Fresh Water Fish	96 hours

12.2 Persistence and degradability

Product / ingredient	Aquatic half-life (Photolysis)	Biodegradability
Ammonia	—	Readily
IPBC	—	Not readily

Section 12 : Ecological Information

12.3 Bioaccumulative potential

Low - Ammonia

12.4 Mobility in soil

Soil/water partition coefficient	Not available
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Mobility	Not available
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12.5 Results of PBT and vPvB assessment

PBT	Not applicable
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vPvB	Not applicable
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12.6 Other adverse effects

No known significant effects or critical hazards

Section 13 : Disposal considerations

13.1 Waste treatment method

Product

Methods of disposal

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste

Yes

Disposal criteria

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.

Section 13 : Disposal considerations

European waste catalogue (EWC)	08 01 11* Waste paint and varnish containing organic solvents or other dangerous substances
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Packaging

Methods of disposal	The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Disposal criteria	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.
Special precautions	This material and its container must be disposed off 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. Avoid dispersal of split material and runoff and contact with soil, waterways, drains and sewers.

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

Section 14 : Transport information

	ADR/RID ADN	IMDG IATA
14.1 UN number	Not regulated	Not regulated
14.2 UN proper shipping name	-	-
14.3 Transport hazard class	-	-
14.4 Packing group	-	-
14.5 Environment hazards	No	No

14.6 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.

14.7 Transport in bulk according to Annex II of Carpool and the IBC code

Not applicable

Section 15 : Regulatory Information

15.1 Safety, health and environmental regulations/legislations specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of Substances subject to authorization

None of the components are listed and none of the components are substance of very high concern.

Annex XVII - Restrictions on the manufacture, and use of certain dangerous substances

Not applicable, no restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

Other EU regulations

VOC

Not available

VOC for Ready-for-Use Mixture

Not applicable

Europe Inventory

Not determined

Ozone Depleting Substances (1005/2009/EU)

Not listed

Prior Informed Consent (PIC) (649/2012/EU)

Not listed

Seveso Directive

This product is not controlled under the Directive

International regulations

Chemical Weapon Convention

Not listed (Schedules I, II & III Chemicals)

Montreal Protocol

Not listed (Annexes A, B, C, E)

Stockhold Convention

Not listed (Persistent Organic Pollutants)

Rotterdam Convention

Not listed (Prior Informed Consent)

UNECE Aarhus Protocol

Not listed (POPs and Heavy Metals)

15.2 Chemical Safety

No assessment has been carried out

Section 16 : Other Information

Abbreviations and acronyms

ATE = Acute Toxicity Estimate
CLP = Classification, Labelling & 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

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

Classification	Justification
Skin Sens. 1, H317	Calculation method

Full text of abbreviated H statements

H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H331	Toxic if inhaled
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Section 16 : Other Information

Full text of classifications [CLP/GHS]

Acute Tox. 3, H301	ACUTE TOXICITY (oral) - Category 3
Acute Tox. 3, H311	ACUTE TOXICITY (dermal) - Category 3
Acute Tox. 3, H331	ACUTE TOXICITY (inhalation) - Category 3
Acute Tox. 4, H302	ACUTE TOXICITY (oral) - Category 4
Aquatic Acute 1, H400	Short-term (acute) AQUATIC HAZARD - Category 1
Aquatic Chronic 1, H410	Long-term (chronic) AQUATIC HAZARD - Category 1
Eye Dam. 1, H318	Serious Eye Damage / EYE IRRITATION - Category 1
Skin Corr. 1B, H314	Skin Corrosion / IRRITATION - Category 1B
Skin Irrit. 2, H315	Skin Corrosion / IRRITATION - Category 2
Skin Sens. 1, H317	Skin SENSITIZATION - Category 1

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