

SAFETY DATA SHEET

according to the Globally Harmonized System and US regulation

ARMEEN OL

Version 1

Revision Date 10/05/2018

Print Date 04/20/2020

US / Z8

1. IDENTIFICATION

Product name : ARMEEN OL

Product Use Description : Specific use(s): Chemical intermediate

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2. HAZARDS IDENTIFICATION

Emergency Overview

| | |
|------------|------------|
| Appearance | liquid |
| Color | yellow |
| Odor | ammoniacal |

GHS Classification

Acute toxicity, Category 4, Oral

Skin corrosion, Category 1B

Serious eye damage, Category 1

Specific target organ systemic toxicity - single exposure, Category 3, Respiratory system

Specific target organ systemic toxicity - repeated exposure, Category 2, Gastrointestinal tract, Liver, Immune system

Aspiration hazard, Category 1

Acute aquatic toxicity, Category 1

Chronic aquatic toxicity, Category 1

GHS label elements

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.

H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
H373 May cause damage to organs (Gastrointestinal tract, Liver, Immune system) through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements**: Prevention:**

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
P314 Get medical advice/ attention if you feel unwell.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Carcinogenicity:**IARC**

: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Substance

Hazardous ingredients

| Chemical name | CAS-No. | Classification | Concentration [% W/W] |
|---------------|----------|--|-----------------------|
| Oleylamine | 112-90-3 | Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335 STOT RE 2; H373 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 | >= 90 - <= 100 |

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

- General advice : Immediate medical attention is required.
Move out of dangerous area.
Show this material safety data sheet to the doctor in attendance.
Burns may occur several hours after the removal of the product.
- Inhalation : Obtain medical attention immediately.
If breathed in, move person into fresh air.
- Skin contact : Take off contaminated clothing and shoes immediately.
Wash skin immediately with 0,5 % acetic acid in water, and then with soap and water.
Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
Skin irritation, if untreated, may be prolonged and serious (e.g., necrosis). This may be prevented by early treatment with medium strength corticosteroids.
- Eye contact : In case of contact with eyes, rinse immediately with 0.5% acetic acid in water for a few minutes, followed by rinsing with plenty of water for as long as possible. Eyelids should be held away from the eyeball to ensure thorough rinsing.

Get medical attention immediately. Continue to rinse during transport of patient.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
Small amounts splashed into eyes can cause irreversible tissue damage and blindness.

Ingestion : Clean mouth with water and drink afterwards plenty of water.
Never give anything by mouth to an unconscious person.
Take victim immediately to hospital.
Do not induce vomiting! May cause chemical burns in mouth and throat.

Notes to physician

Symptoms : The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.

Risks : Harmful if swallowed.
May be fatal if swallowed and enters airways.
Causes serious eye damage.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.
Causes severe burns.

Treatment : Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire fighting / Specific hazards arising from the chemical : Treat as oil fire.
Do not use a solid water stream as it may scatter and spread fire.
Water spray may be ineffective unless used by experienced firefighters.
Do not allow run-off from fire fighting to enter drains or water courses.

Combustion products : Carbon oxides
Nitrogen oxides (NOx)

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

See also Section 9. Physical and chemical properties: Safety data

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment.
Wear respiratory protection.

Ensure adequate ventilation.

| | |
|--|---|
| Emergency measures on accidental release | : Evacuate personnel to safe areas. Only qualified personnel equipped with suitable protective equipment may intervene. Prevent unauthorized persons entering the zone. |
| Environmental precautions | : Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities. |
| Methods for cleaning up / Methods for containment | : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. |
| Reference to other sections | : For disposal considerations see section 13. For personal protection see section 8. |

7. HANDLING AND STORAGE

Handling

Advice on safe handling : For personal protection see section 8.
Avoid formation of aerosol.
Do not breathe vapors or spray mist.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Storage

Requirements for storage areas and containers : Prevent unauthorized access.
Avoid elevated temperatures.
Keep in a well-ventilated place.
Reacts with copper, aluminum, zinc and their alloys

Other data : No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Contains no substances with occupational exposure limit values.

Appropriate engineering controls

Provide eyewash station and safety shower. Keep solutions of 0.5% acetic acid in water close at hand.

Effective exhaust ventilation system

Personal protective equipment

| | |
|--------------------------|---|
| Eye/face protection | : Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems. |
| Hand protection | : Glove material: Nitrile rubber : Glove material: butyl-rubber |
| Skin and body protection | : Protective suit |
| Respiratory protection | : In the case of vapor or aerosol formation use a respirator with an approved filter. Wear full face mask supplied with: Combination filter: ABEKP. |
| Hygiene measures | : Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke. Dry-clean contaminated clothing before reuse. |

Environmental exposure controls

| | |
|----------------|--|
| General advice | : Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities. |
|----------------|--|

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

| | |
|----------------|---------------------|
| Form | : liquid |
| Color | : yellow |
| Odor | : ammoniacal |
| Odor Threshold | : No data available |

Safety data

| | |
|-----------------------------|---|
| pH | : No data available |
| Melting point/range | : 10 - 20 °C |
| Boiling point/boiling range | : > 300 °C |
| Flash point | : 181 °C Method: ASTM D93 A |
| Evaporation rate | : No data available |
| Flammability (solid, gas) | : Not applicable |
| Flammability (liquids) | : Not classified as a flammability hazard |
| Lower explosion limit | : No data available |
| Upper explosion limit | : No data available |

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|--|--|
| Vapor pressure | : < 0.1 hPa at 20 °C |
| Relative vapor density | : No data available |
| Density | : 790 kg/m ³ at 60 °C |
| Relative density | : 0.81 at 20 °C |
| Water solubility | : insoluble |
| Solubility in other solvents | : Soluble in alcohols and hydrocarbons. |
| Partition coefficient: n-octanol/water | : No data available |
| Autoignition temperature | : 265 °C |
| Decomposition temperature | : > 300 °C |
| Viscosity, dynamic | : 4.93 mPa.s at 20 °C |
| Viscosity, kinematic | : No data available |
| Explosive properties | : Not explosive |
| Oxidizing properties | : The substance or mixture is not classified as oxidizing. |

This material safety datasheet only contains information relating to safety and does not replace any product information or product specification.

10. STABILITY AND REACTIVITY

| | |
|----------------------------------|---|
| Conditions to avoid | : Extremes of temperature and direct sunlight. |
| Materials to avoid | : Reacts with copper, aluminum, zinc and their alloys |
| Hazardous decomposition products | : No hazardous decomposition products are known. |
| Thermal decomposition | : > 300 °C |
| Reactivity | : Stable under normal conditions. |
| Chemical stability | : Stable under recommended storage conditions. |
| Hazardous reactions | : No dangerous reaction known under conditions of normal use. |

11. TOXICOLOGICAL INFORMATION

PRODUCT INFORMATION:

Hazard Summary

| | |
|---------------------------|------------------------------|
| Acute toxicity | : Harmful if swallowed. |
| Skin corrosion/irritation | : Causes severe burns. |
| Serious eye damage/eye | : Causes serious eye damage. |

| | |
|-----------------------------------|---|
| irritation | |
| Respiratory or skin sensitization | : Respiratory sensitization: Not classified based on available information. Skin sensitization: Not classified based on available information. |
| Germ cell mutagenicity | : Not classified based on available information. |
| Carcinogenicity | : Not classified based on available information. |
| Reproductive toxicity | : Not classified based on available information. |
| STOT-single exposure | : May cause respiratory irritation. |
| STOT-repeated exposure | : May cause damage to organs (Gastrointestinal tract, Liver, Immune system) through prolonged or repeated exposure. |
| Aspiration hazard | : May be fatal if swallowed and enters airways. |

Potential Health Effects

| | |
|------------------------------|---|
| Inhalation | : Inhalation of aerosols may cause irritation to mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. May cause respiratory irritation. May be fatal if swallowed and enters airways. Inhalation may cause central nervous system effects. |
| Skin | : Burns may occur several hours after the removal of the product. Symptoms may be delayed. Causes severe skin burns. The product may be absorbed through the skin. |
| Eyes | : Vapor in the eyes may cause irritation and pain. Causes severe eye burns. |
| Ingestion | : Harmful if swallowed. May cause irritation of the mucous membranes. Causes burns. May be fatal if swallowed and enters airways. |
| Aggravated Medical Condition | : None known. |
| Symptoms of Overexposure | : The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known. |

Toxicology Assessment

| | |
|---------------------|------------------------------|
| Further information | : No further data available. |
|---------------------|------------------------------|

Carcinogenicity:

| | |
|------|--|
| IARC | : No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. |
| OSHA | : No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens. |

NTP : No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

TOXICOLOGY DATA FOR THE INGREDIENTS:

Test result

Component: Oleylamine

Acute oral toxicity : LD50: > 300 - 2,000 mg/kg
Species: Rat
Method: OECD Test Guideline 401

Skin irritation : Species: Rabbit
Result: Causes burns.
Method: OECD Test Guideline 404

Target Organ Systemic Toxicant - Single exposure : May cause respiratory irritation.

Target Organ Systemic Toxicant - Repeated exposure : Target Organs: Gastrointestinal tract, Liver, Immune system
May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity : May be fatal if swallowed and enters airways.

12. ECOLOGICAL INFORMATION

PRODUCT INFORMATION:

Ecotoxicology Assessment

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

Further information on ecology

Hazardous to the ozone layer

Regulation : 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

INGREDIENTS:

Test result

Component: Oleylamine

Ecotoxicity effects

- Toxicity to fish : LC50: > 0.01 - 0.1 mg/l
Exposure time: 96 h
Species: Pimephales promelas (fathead minnow)
Method: OECD Test Guideline 203
Read-across (Analogy)
- Toxicity to daphnia and other aquatic invertebrates : EC50: > 0.01 - 0.1 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 202
Read-across (Analogy)
- Toxicity to algae : EC50: > 0.01 - 0.1 mg/l
Exposure time: 72 h
Species: Desmodesmus subspicatus (green algae)
Method: OECD Test Guideline 201
Read-across (Analogy)

Elimination information (persistence and degradability)

- Bioaccumulation : Bioconcentration factor (BCF): > 500
- Mobility : Can be leached out from soil.
- Biodegradability : Result: Readily biodegradable.
Method: OECD Test Guideline 301D

Further information on ecology

- Biochemical Oxygen Demand (BOD) : No data available

13. DISPOSAL CONSIDERATIONS

- Product : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Hazardous waste
Dispose of contents/container in accordance with local regulation.
- : Waste must be disposed of in accordance with federal, state and local environmental control regulations.
- Contaminated packaging : Empty remaining contents.
Dispose of as unused product.

14. TRANSPORT INFORMATION**International Regulations****IATA-DGR**

UN/ID No. : UN 2735
 Proper shipping name : Amines, liquid, corrosive, n.o.s.
 (Alkylamine)
 Class : 8
 Packing group : II
 Labels : 8
 Packing instruction (cargo aircraft) : 855
 Packing instruction (passenger aircraft) : 851
 Packing instruction (LQ) : Y840
 Environmentally hazardous : yes

IMDG-Code

UN number : UN 2735
 Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S.
 (Alkylamine)
 Class : 8
 Packing group : II
 Labels : 8
 EmS Code : F-A, S-B
 Marine pollutant : yes
 (Alkylamine)

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation**49 CFR**

UN/ID/NA number : UN 2735
 Proper shipping name : Amines, liquid, corrosive, n.o.s.
 (Alkylamine)
 Class : 8
 Packing group : II
 Labels : 8
 ERG Code : 153
 Marine pollutant : yes
 (Alkylamine)
 Reportable Quantity : This product does not contain an environmentally hazardous substance per 49 CFR 172.101, Appendix A.

15. REGULATORY INFORMATION**Notification status**

DSL : YES. All components of this product are on the Canadian DSL
 AICS : YES. On the inventory, or in compliance with the inventory
 NZIoC : YES. On the inventory, or in compliance with the inventory
 ENCS : YES. On the inventory, or in compliance with the inventory
 ISHL : YES. On the inventory, or in compliance with the inventory
 KECI : YES. On the inventory, or in compliance with the inventory
 PICCS : YES. On the inventory, or in compliance with the inventory
 IECSC : YES. On the inventory, or in compliance with the inventory
 TCSI : YES. On the inventory, or in compliance with the inventory
 TSCA : YES. All chemical substances in this product are either listed on the TSCA Inventory or in compliance with a TSCA Inventory exemption.

For explanation of abbreviations, see section 16.

TSCA list

TSCA 5(a)(2) : No substances are subject to a Significant New Use Rule.
TSCA 12(b) : No substances are subject to TSCA 12(b) export notification requirements.

EPCRA - Emergency Planning and Community Right-to-Know**CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute toxicity (any route of exposure)
Skin corrosion or irritation
Serious eye damage or eye irritation
Specific target organ toxicity (single or repeated exposure)
Aspiration hazard

SARA 302 : This material does not contain any components with a section 302 EHS TPQ.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals subject to disclosure and listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

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California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION**Full text of H-Statements**

H302 : Harmful if swallowed.
H304 : May be fatal if swallowed and enters airways.
H314 : Causes severe skin burns and eye damage.
H318 : Causes serious eye damage.
H335 : May cause respiratory irritation.
H373 : May cause damage to organs through prolonged or repeated exposure.

H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.

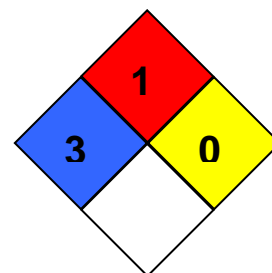
Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Further information

HMIS Classification : Health Hazard: 3
Chronic Health Hazard: *
Flammability: 1
Physical hazards: 0

NFPA Classification : Health Hazard: 3
Fire Hazard: 1
Reactivity Hazard: 0

**Notification status explanation**

| | |
|-------|--|
| REACH | 1907/2006 (EU) |
| DSL | Canadian Domestic Substances List (DSL) |
| AICS | Australia Inventory of Chemical Substances (AICS) |
| NZIoC | New Zealand. Inventory of Chemical Substances |
| ENCS | Japan. ENCS - Existing and New Chemical Substances Inventory |
| ISHL | Japan. ISHL - Inventory of Chemical Substances |
| KECI | Korea. Korean Existing Chemicals Inventory (KECI) |
| PICCS | Philippines Inventory of Chemicals and Chemical Substances (PICCS) |
| IECSC | China. Inventory of Existing Chemical Substances in China (IECSC) |
| TCSI | Taiwan Chemical Substance Inventory (TCSI) |
| TSCA | United States TSCA Inventory |

Further information

Revision Date 10/05/2018

The information in this material safety data sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. The user must determine the appropriate measures that need to be implemented for the use and handling of this product in the context of the user's operations and use of this product. The information contained herein supersedes all previously issued bulletins on the subject matter covered. If the date on this document is more than three years old, call to make certain that this sheet is current. No warranty is made as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. User must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes, including mixing with other products. Nothing contained herein shall be construed as granting or extending any license under any patent.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.