

**Coco Amine, distilled**

Issuing date: 09/28/2018

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Trade name : Coco Amine, distilled

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

Uses of the Substance / Mixture : Specific use(s): Intermediate

1.3 Details of the supplier of the safety data sheet

Company : Chem International, Inc.
 6099 Ponders Court
 Greenville, SC 29615
 Telephone number: 864-458-7868

1.4 Emergency telephone

USA: FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CONTACT:
 CHEMTREC (800-424-9300 within the United States and Canada)

SECTION 2: Hazards identification

Although OSHA has not adopted the environmental portion of the GHS regulations, this document may include information on environmental effects.

2.1 Classification of the substance or mixture**HCS 2012 (29 CFR 1910.1200)**

Acute toxicity, Category 4
 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
 Aspiration hazard, Category 1

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

2.2 Label elements**HCS 2012 (29 CFR 1910.1200)**

Pictogram :



Signal Word :

: Danger

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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 through prolonged or repeated exposure.

Precautionary Statements:

Prevention

P260	Do not breathe vapors.
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.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

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

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.
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2.3 Other hazards which do not result in classification

H400: Very toxic to aquatic life.

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

SECTION 3: Composition/information on ingredients**3.1 Substance**

Synonyms : Coco Amines

Hazardous Ingredients and Impurities

Chemical Name	Identification number CAS-No.	Concentration [%]
Amines, coco alkyl	61788-46-3	> 98

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

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3.2 Mixture

Not applicable, this product is a substance.

SECTION 4: First aid measures**4.1 Description of first-aid measures**

- General advice : Show this material safety data sheet to the doctor in attendance.
First responder needs to protect himself.
Place affected apparel in a sealed bag for subsequent decontamination.
- If inhaled : Remove victim from exposure and then have him lie down in the recovery position.
If breathing is difficult, give oxygen.
If victim has stopped breathing:
administer CPR (cardio-pulmonary resuscitation)
Get immediate medical advice/ attention.
- Skin contact : In case of contact, immediately flush skin with plenty of water for at least 30 minutes.
Remove contaminated clothing and shoes.
Wash contaminated clothing before re-use.
Discard contaminated shoes and clothing.
- Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Get immediate medical advice/ attention.
Show this material safety data sheet to the doctor in attendance.
- Ingestion : Do not induce vomiting without medical advice.
If victim is conscious:
Rinse mouth with water.
Keep at rest.
Do not give anything to drink.
Do not leave the victim unattended.
Vomiting may occur spontaneously
Risk of product entering the lungs on vomiting after ingestion.
Lay victim on side.
Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : Skin contact may aggravate existing skin disease
Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician : All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.
- Treat symptomatically.
There is no specific antidote available.

**SECTION 5: Firefighting measures**

Flash point : 212 °F (100 °C)
closed cup

Flammability class: Will burn

Autoignition temperature : no data available

Flammability / Explosive limit : no data available

5.1 Extinguishing media

Suitable extinguishing media : Extinguishing media - small fires
Dry chemical
Carbon dioxide (CO₂)

Extinguishing media - large fires
Foam
Water spray

Unsuitable extinguishing media : High volume water jet
(frothing possible)

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting : Under fire conditions:
Will burn
Harmful or toxic vapors are released.
Container may rupture on heating.
On combustion or on thermal decomposition (pyrolysis), releases:
Nitrogen oxides (NO_x)
Carbon oxides

5.3 Advice for firefighters

Special protective equipment for fire-fighters : Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

Specific fire fighting methods : Cool closed containers exposed to fire with water spray.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.



SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions, protective equipment and emergency procedures : Wear suitable protective equipment.
For further information refer to section 8 "Exposure controls / personal protection."
Avoid contact with the skin and the eyes.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.
Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies

6.3 Methods and materials for containment and cleaning up

Methods for containment : Stop the leak. Turn leaking containers leak-side up to prevent the escape of liquid.
Dam up with sand or inert earth (do not use combustible materials).

Recovery : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Shovel or sweep up.
Keep in suitable, closed containers for disposal.
Never return spills in original containers for re-use.

Decontamination / cleaning : Flush with plenty of water.
Clean contaminated surface thoroughly.
Decontaminate tools, equipment and personal protective equipment in a segregated area.
Recover the cleaning water for subsequent disposal.
Wash nonrecoverable remainder with large amounts of water.

Disposal : Dispose of in accordance with local regulations.

Additional advice : The product should not be allowed to enter drains, water courses or the soil.
: Material can create slippery conditions.

6.4 Reference to other sections

Reference to other sections : 7. HANDLING AND STORAGE
8. EXPOSURE CONTROLS/PERSONAL PROTECTION
13. DISPOSAL CONSIDERATIONS



SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling and usage : The product must only be handled by specifically trained employees.
- Provide adequate ventilation.
 Avoid inhalation, ingestion and contact with skin and eyes.
 Avoid inhalation of vapor or mist.
 Do NOT handle in a confined space.
 Keep away from heat.
 Do not puncture.
 Do NOT handle without gloves.
- Hygiene measures : Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this materials:
- 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
 - 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
 - 3) Wash exposed skin promptly to remove accidental splashes or contact with material.

7.2 Conditions for safe storage, including any incompatibilities

- Technical Measures for storage : Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.

Storage conditions

- Recommended : Keep container tightly closed in a dry and well-ventilated place.
- To be avoided : Keep away from open flames, hot surfaces and sources of ignition.
 Keep away from incompatible materials to be indicated by the manufacturer
- Incompatible products : Strong oxidizing agents
 Strong acids

Packaging Measures

- Packaging materials—Recommended : Plastic materials. Steel drum, Coated steels.

Storage stability

- Storage temperature : 39 - 120 °F (4 - 49 °C)

7.3 Specific end use(s)

no data available



SECTION 8: Exposure controls/personal protection

Introductory Remarks:

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations.

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Control measures

Engineering measures : Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures :

Effective exhaust ventilation system
Avoid splashes.

Personal protective equipment

Respiratory protection : Use a respirator with an approved filter if a risk assessment indicates this is necessary.
In the case of hazardous fumes, wear self contained breathing apparatus.

When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.

Hand protection : Where there is a risk of contact with hands, use appropriate gloves
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
Gloves must be inspected prior to use.
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection : Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

Eye contact should be prevented through the use of:

Safety glasses with side-shields
Face-shield

Skin and body protection : Recommended preventive skin protection
Footwear protecting against chemicals

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impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this materials:

- 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- 3) Wash exposed skin promptly to remove accidental splashes or contact with material.

Protective measures

: Ensure that eyewash stations and safety showers are close to the workstation location.

Emergency equipment immediately accessible, with instructions for use.

The protective equipment must be selected in accordance with current local standards and in cooperation with the supplier of the protective equipment. Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards, and/or risks that may occur during use.

SECTION 9: Physical and chemical properties

Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product information phone number in Section 1 for its exact specifications.

9.1 Information on basic physical and chemical properties

Appearance	: Form: liquid Physical state: liquid (77 °F (25 °C)) Color: colorless clear
Odor	: ammoniacal
Odor Threshold	: no data available
pH	: no data available
Freezing point	: 55 - 75 °F (13 - 24 °C)
Boiling point/boiling range	: > 338 °F (170 °C) (760 mmHg (1,013.25 hPa))
Flash point	: 212 °F (100 °C) closed cup Flammability class: Will burn
Evaporation rate (Butylacetate = 1)	: < 1
Flammability (solid, gas)	: no data available

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Flammability / Explosive limit	:	no data available
Autoignition temperature	:	no data available
Vapor pressure	:	< 0.75 mmHg (1 hPa) (68 °F (20 °C))
Vapor density	:	no data available
Density	:	0.8 g/cm ³ (77 °F (25 °C)) Relative density : ca. 0.8 (77 °F (25 °C))
Solubility	:	Water solubility: insoluble Solubility in other solvents: Ethanol: soluble Isopropanol: soluble
Partition coefficient: n-octanol/water	:	no data available
Thermal decomposition	:	no data available
Viscosity	:	no data available
Explosive properties	:	no data available
Oxidizing properties	:	Not considered as oxidizing. Structure-activity relationship (SAR)

9.2 Other information

Molecular weight : ca. 224 g/mol

SECTION 10: Stability and reactivity**10.1 Reactivity**

no data available

10.2 Chemical stability

Chemical stability : Stable under normal conditions.

10.3 Possibility of hazardous reactions

Polymerization : Hazardous polymerization does not occur.

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10.4 Conditions to avoid

Conditions to avoid : Keep away from heat and sources of ignition.

10.5 Incompatible materialsMaterials to avoid : Strong oxidizing agents
Strong acids**10.6 Hazardous decomposition products**Decomposition products : On combustion or on thermal decomposition (pyrolysis), releases:
Carbon oxides
Nitrogen oxides (NOx)**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

Acute oral toxicity : The product itself has not been tested.
According to the data on the components
Harmful if swallowed.

Acute inhalation toxicity : The product itself has not been tested.
According to the data on the components
May cause irritation of respiratory tract.
Not classified as harmful by inhalation

Acute dermal toxicity : The product itself has not been tested.
According to the data on the components
Not classified as harmful by contact with skin

Acute toxicity (other routes of administration) : no data available

Skin corrosion/irritationSkin irritation : The product itself has not been tested.
According to the data on the components
Causes skin burns.**Serious eye damage/eye irritation**Eye irritation : The product itself has not been tested.
According to the data on the components
Risk of serious damage to eyes.**Respiratory or skin sensitization**Sensitization : The product itself has not been tested.
According to the data on the constituents
The product is not considered to be sensitizing by skin contact.



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Mutagenicity

- Genotoxicity in vitro : The product itself has not been tested.
According to the data on the components
Product is not considered to be genotoxic
- Genotoxicity in vivo : The product itself has not been tested.
According to the data on the components
Product is not considered to be genotoxic

Carcinogenicity

- Carcinogenicity : The product itself has not been tested.
According to the data on the components
Not classifiable as a human carcinogen.

This product does not contain any ingredient designated as probable or suspected human carcinogens by:

NTP
IARC
OSHA
ACGIH

Toxicity for reproduction and development

- Toxicity to reproduction / fertility : The product itself has not been tested.
According to the data on the components
No toxicity to reproduction
- Developmental Toxicity/Teratogenicity : The product itself has not been tested.
According to the data on the components
No effect observed on development

STOT

- STOT-single exposure : Toxicology Assessment:
May cause respiratory irritation.
Remarks: The product itself has not been tested., According to the data on the components
- STOT-repeated exposure : Target Organs: Gastrointestinal tract, Liver, Respiratory Tract
Toxicology Assessment:
May cause damage to organs through prolonged or repeated exposure.
Remarks: The product itself has not been tested., According to the data on the components
- May cause damage to organs through prolonged or repeated exposure. The product itself has not been tested.
According to the data on the components

Aspiration toxicity

- Aspiration toxicity : The product itself has not been tested. According to the data on the components, May be fatal if swallowed and enters airways.



SECTION 12: Ecological information

12.1 Toxicity

Aquatic Compartment

- Acute toxicity to fish : The product itself has not been tested.
According to the data on the components
Very toxic to fish.
- Acute toxicity to daphnia and other aquatic invertebrates. : The product itself has not been tested.
According to the data on the components
Very toxic to aquatic invertebrates.
- Toxicity to aquatic plants : The product itself has not been tested.
According to the data on the components
Very toxic to algae.
- Toxicity to microorganisms
Amines, coco alkyl : EC50 : 14.2 mg/l
Method: OECD Test Guideline 209
pure product
- EC50 : 14 mg/l
Method: OECD Test Guideline 209
Diluted product
- Chronic toxicity to daphnia and other aquatic invertebrates. : The product itself has not been tested.
According to the data on the components
Very toxic to aquatic life with long lasting effects.
- Chronic Toxicity to aquatic plants : The product itself has not been tested.
According to the data on the components
Very toxic to algae.

Ecotoxicity assessment

- Acute aquatic toxicity : Very toxic to aquatic life.
- Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

M-Factor

- Amines, coco alkyl : Acute aquatic toxicity = 10
(according to the Globally Harmonized System (GHS))

12.2 Persistence and degradability

Biodegradability

- Biodegradability : The product itself has not been tested.
According to the data on the components
Readily biodegradable

**12.3 Bioaccumulative potential**

Bioconcentration factor (BCF) : The product itself has not been tested.
According to the data on the components
Bioaccumulative

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

12.6 Other adverse effects

Environment assessment : Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product Disposal**

Advice on Disposal : Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

Waste Code : EPA:
Hazardous Waste – YES

RCRA:
D002 - Corrosive waste – (C)

Advice on cleaning and disposal of packaging

Advice on Disposal : Rinse with an appropriate solvent.
Dispose of contents/container in accordance with local regulation.

SECTION 14: Transport information

Transportation status: IMPORTANT! Statements below provide additional data on listed transport classification. The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

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DOT

<u>14.1 UN number</u>	UN 2735
<u>14.2 Dangerous Good Description</u>	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (fatty acid derived amines), 8, II
<u>14.3 Transport hazard class</u>	8
<u>14.4 Packing group</u>	
Packing group	II
Label(s)	8
ERG No	153
<u>14.5 Environmental hazards</u>	YES
Marine pollutant	

TDG

<u>14.1 UN number</u>	UN 2735
<u>14.2 Dangerous Good Description</u>	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (fatty acid derived amines), 8, II
<u>14.3 Transport hazard class</u>	8
<u>14.4 Packing group</u>	
Packing group	II
Label(s)	8
ERG No	153
<u>14.5 Environmental hazards</u>	YES
Marine pollutant	

IMDG

<u>14.1 UN number</u>	UN 2735
<u>14.2 Dangerous Good Description</u>	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (fatty acid derived amines), 8, II, IMDG Code Segregation Group 18 - Alkalis
IMDG Code segregation group	Alkalis
<u>14.3 Transport hazard class</u>	8
<u>14.4 Packing group</u>	
Packing group	II
Label(s)	8
EmS	F-A , S-B
<u>14.5 Environmental hazards</u>	YES
Marine pollutant	

14.6 Special precautions for user
For personal protection see section 8.

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IATA

<u>14.1 UN number</u>	UN 2735
<u>14.2 Dangerous Good Description</u>	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (fatty acid derived amines), 8, II
<u>14.3 Transport hazard class</u>	8
<u>14.4 Packing group</u>	
Packing group	II
Label(s):	8
Packing instruction (cargo aircraft)	855
Max net qty / pkg	30.00 L
Packing instruction (passenger aircraft)	851
Max net qty / pkg	1.00 L
<u>14.5 Environmental hazards</u>	YES
Marine pollutant	
<u>14.6 Special precautions for user</u>	
For personal protection see section 8.	

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transportation regulations for hazardous materials, it would be advisable to check their validity with your sales office.

SECTION 15: Regulatory information**15.1 Notification status**

United States TSCA Inventory	: y (positive listing) On TSCA Inventory
Canadian Domestic Substances List (DSL)	: y (positive listing) All components of this product are on the Canadian DSL.
Australia Inventory of Chemical Substances (AICS)	: y (positive listing) On the inventory, or in compliance with the inventory
Japan. CSCL - Inventory of Existing and New Chemical Substances	: n (Negative listing) Not in compliance with the inventory
Korea. Korean Existing Chemicals Inventory (KECI)	: y (positive listing) On the inventory, or in compliance with the inventory
China. Inventory of Existing Chemical Substances in China (IECSC)	: y (positive listing) On the inventory, or in compliance with the inventory

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15.2 Federal Regulations**SARA 311/312 Hazards**

Fire Hazard	no
Reactivity Hazard	no
Sudden Release of Pressure Hazard	no
Acute Health Hazard	yes
Chronic Health Hazard	yes

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.

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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

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

SARA 304 Reportable Quantity

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

SARA 302 Reportable Quantity

This material does not contain any components with a SARA 302 RQ.

15.3 State Regulations

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.

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SECTION 16: Other information**NFPA-Classification**

Health : 3 serious
Flammability : 1 slight
Instability or Reactivity : 0 minimal

HMIS-Classification

Health : 3 serious
Flammability : 1 slight
Reactivity : 0 minimal

Further information

Date Prepared : 05/15/2015
Revision Date : 09/28/2018 (date only)
Further information : Product classified under the US GHS format.

Key or legend to abbreviations and acronyms used in the safety data sheet

ACGIH : American Conference of Governmental Industrial Hygienists
OSHA : Occupational Safety and Health Administration
WHMIS : Workplace Hazardous Materials Information System
NTP : National Toxicology Program
IARC : International Agency for Research on Cancer
NIOSH : National Institute for Occupational Safety and Health
NFPA : National Fire Protection Association
HMIS : Hazardous Materials Identification System (Paint & Coating)

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose, and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in another manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.