

**Tetradecyl dimethylamine**

Revision: 1.00

Issuing date: 4/20/2015

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

Trade name : Tetradecyl dimethylamine

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 sheetCompany : Chem International
6099 Ponders Court
Greenville, SC 29615
Telephone number: 864-458-7868**1.4 Emergency telephone**

FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CONTACT: CHEMTREC 800-424-9300 within the United States and Canada, or 703-527-3887 for international collect calls.

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 1H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.**2.2 Label elements****HCS 2012 (29 CFR 1910.1200)**

Pictogram



Signal Word

: Danger

Hazard Statements:H302
H314Harmful if swallowed.
Causes severe skin burns and eye damage.

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Precautionary Statements:

Prevention

P264

P270

P280

Wash skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

P301 + P312

IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

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

P405

Store locked up.

Disposal

P501

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

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 : N, N-Dimethyltetradecanamine

Hazardous Ingredients and Impurities

Chemical Name	Identification number CAS-No.	Concentration [%]
1-Tetradecanamine, N,N-dimethyl-	112-75-4	95 - 99
1-Dodecanamine, N,N-dimethyl-	112-18-5	< 3
1-Hexadecanamine, N,N-dimethyl-	112-69-6	< 2

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

3.2 Mixture

Not applicable, this product is a substance.

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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.
Plan first aid action before beginning work with this product.
- If inhaled : Remove victim from exposure and then have him lie down in the recovery position.
If breathing is difficult, give oxygen.
If breathing has stopped, apply artificial respiration.
Consult a physician.
- Skin contact : In case of contact, immediately flush skin with plenty of water for at least 30 minutes.
Remove contaminated clothing and shoes.
Discard contaminated shoes and clothing.
Seek medical advice.
- Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Seek medical advice.
- 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

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- Flash point : >266 °F (130 °C)
closed cup
- Flammability class: Will burn
- Autoignition temperature : no data available
- Flammability / Explosive limit : Lower flammability/explosion limit: no data available
Upper flammability/explosion 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 firefighting : Under fire conditions:
Will burn
Corrosive or suffocating 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.
In the event of fire, wear self-contained breathing apparatus.
Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing
- Specific firefighting methods : Cool down the containers / equipment exposed to heat with a water spray.
Ensure that there is NO direct contact between the water and the product.
Do not use a solid water stream as it may scatter and spread fire.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Further information : In the event of fire and/or explosion do not breathe fumes.
Standard procedure for chemical fires.
Use a water spray to cool fully closed containers.

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

Disposal : Dispose of in accordance with local regulations.

Additional advice : The product should not be allowed to enter drains, water courses or the soil.

6.4 Reference to other sections

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


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SECTION 7: Handling and storage
7.1 Precautions for safe handling

- Advice on safe handling and usage : Handle in accordance with good industrial hygiene and safety practice. Avoid inhalation, ingestion and contact with skin and eyes.
- The product must only be handled by specifically trained employees.
- 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 in a cool, well-ventilated place.
Store in original container.
Keep tightly closed.
- To be avoided : Keep away from open flames, hot surfaces and sources of ignition.
Keep away from combustible material.
Keep away from incompatible materials to be indicated by the manufacturer
- Incompatible products : Do not mix with incompatible materials (See list, section 10).

Packaging Measures

- Packaging materials—Recommended : Plastic drum
- Packaging materials—To be avoided : Metallic drums.

Storage stability

- Storage temperature : 39 - 104 °F (4 - 40 °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

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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 : 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.

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.

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


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- 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
Color: colorless to pale yellow
- Odor : ammoniacal
- Odor Threshold : no data available
- pH : Not applicable, insoluble product
- Melting point/range : < 23.9 °F (-4.5 °C)
- Boiling point/boiling range : > 392 °F (200 °C) (760 mmHg (1,013.25 hPa))
- Flash point : > 266 °F (130 °C) closed cup
Flammability class: Will burn
- Evaporation rate (Butylacetate = 1) : no data available
- Flammability (solid, gas) : no data available
- Flammability (liquids) : no data available

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Flammability / Explosive limit	:	Lower flammability/explosion limit: no data available Upper flammability/explosion limit: no data available
Autoignition temperature	:	no data available
Vapor pressure	:	no data available
Vapor density	:	no data available
Density	:	0.8 g/cm ³ (68 °F (20 °C)) Relative density : 0.8
Solubility	:	<u>Water solubility:</u> slightly soluble
Partition coefficient: n-octanol/water	:	no data available
Thermal decomposition	:	no data available
Viscosity	:	Viscosity, kinematic: no data available
Explosive properties	:	no data available
Oxidizing properties	:	Not considered as oxidizing, Structure-activity relationship (SAR)

9.2 Other information

Molecular weight : 241.46 g/mol

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

Reactivity : Stable at normal ambient temperature and pressure.

10.2 Chemical stability

Chemical stability : Stable under normal conditions.

10.3 Possibility of hazardous reactions

Polymerization : Hazardous polymerization does not occur.

10.4 Conditions to avoid

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

**10.5 Incompatible materials**

Materials to avoid : Strong oxidizing agents
Strong reducing agents
Strong acids
Copper
Copper alloys
Aluminum and its alloys.
Zinc and its alloys.
Peroxides
Ammonia
Halogenated compounds

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 : LD50: 1,320 mg/kg - Rat , female
Method: OECD Test Guideline 401
Information refers to the main constituent
Harmful if swallowed.
Unpublished reports

Acute inhalation toxicity : no data available

Acute dermal toxicity : no data available

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

Skin corrosion/irritation

Skin irritation : Causes burns.
Information given is based on data obtained from similar substances.
internal evaluation
Information refers to the main constituent

Serious eye damage/eye irritation

Eye irritation : Risk of serious damage to eyes.
Information given is based on data obtained from similar substances.
internal evaluation
Information refers to the main constituent

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Respiratory or skin sensitization

Sensitization : no data available

Mutagenicity

Genotoxicity in vitro : no data available

Genotoxicity in vivo : no data available

Carcinogenicity

Carcinogenicity : no data available

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 : no data available

Developmental Toxicity/Teratogenicity : no data available

STOTSTOT-single exposure : Toxicology Assessment:
The substance or mixture is not classified as specific target organ toxicant,
single exposure.
Internal evaluation, Information refers to the main constituent

STOT-repeated exposure : no data available

Aspiration toxicity

Aspiration toxicity : no data available

SECTION 12: Ecological information**12.1 Toxicity****Aquatic Compartment**Acute toxicity to fish : LC50 - 96 h: 0.35 mg/l - Danio rerio (zebra fish)
Method: OECD Test Guideline 203
Information refers to the main constituent
Very toxic to fish.
Unpublished reports


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- Acute toxicity to daphnia and other aquatic invertebrates. : EC50 - 48 h: 0.042 mg/l - Daphnia magna (Water flea)
Method: OECD Test Guideline 202
Information refers to the main constituent
Information given is based on data obtained from similar substances.
Very toxic to aquatic organisms.
Unpublished reports
- Toxicity to aquatic plants : ErC50 - 72 h: 0.014 mg/l - Scenedesmus subspicatus
Method: OECD Test Guideline 201
Information refers to the main constituent
Information given is based on data obtained from similar substances.
Very toxic to algae.
Growth rate
Unpublished reports
- Toxicity to microorganisms : EC50: 30.8 mg/l - activated sludge
Method: OECD Test Guideline 209
Information refers to the main constituent
- Chronic Toxicity to aquatic plants : NOEC: < 0.01 mg/l - 72 h - Scenedesmus subspicatus
Method: OECD Test Guideline 201
Information refers to the main constituent
Information given is based on data obtained from similar substances.
Very toxic to algae.
Unpublished reports

Ecotoxicity assessment

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

M-Factor

- 1-Tetradecanamine, N,N-dimethyl- : Acute aquatic toxicity = 100
Chronic aquatic toxicity = 1
(according to the Globally Harmonized System (GHS))

12.2 Persistence and degradability
Biodegradability

- Biodegradability : Method: OECD Test Guideline 301
71 % - 28 d
Readily biodegradable.
The 10 day time window criterion is not fulfilled.
Unpublished reports
Information refers to the main constituent

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

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12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating, and toxic (PBT). This substance is not considered to be very persistent and 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 : RCRA:
Hazardous Waste – YES

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.

DOT

14.1 UN number UN 2735

14.2 Dangerous Good Description UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (fatty tertiary amine), 8, II

14.3 Transport hazard class 8

14.4 Packing group

Packing group II
Label(s) 8
ERG No 153

14.5 Environmental hazards YES

Marine pollutant

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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 tertiary amine), 8, II
<u>14.3 Transport hazard class</u>	8
<u>14.4 Packing group</u>	II
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 tertiary amine), 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>	II
Packing group	II
Label(s)	8
EmS	F-A , S-B
<u>14.5 Environmental hazards</u>	YES
Marine pollutant	
<u>14.6 Special precautions for user</u>	
For personal protection see section 8.	

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 tertiary amine), 8, II
<u>14.3 Transport hazard class</u>	8
<u>14.4 Packing group</u>	II
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


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Marine pollutant
14.6 Special precautions for user

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	: YES (positive listing) On TSCA Inventory
Canadian Domestic Substances List (DSL)	: YES (positive listing) All components of this product are on the Canadian DSL.
Australia Inventory of Chemical Substances (AICS)	: YES (positive listing) On the inventory, or in compliance with the inventory
Japan. CSCL - Inventory of Existing and New Chemical Substances	: YES (positive listing) On the inventory, or in compliance with the inventory
Korea. Korean Existing Chemicals Inventory (KECI)	: YES (positive listing) On the inventory, or in compliance with the inventory
China. Inventory of Existing Chemical Substances in China (IECSC)	: YES (positive listing) On the inventory, or in compliance with the inventory

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	no

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.

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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**

Ingredients	CAS-No.	Reportable quantity
Dimethylamine	124-40-3	1000 lb

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.

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 : 4/20/2015
 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

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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.