



MATERIAL SAFETY DATA SHEET

Naugard® XL-1

Version: 1.3
Date of Issue: 06/27/2007
Date printed: 02/11/2008

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Naugard® XL-1

Chemical name: 2,2'-oxalyldiamidobis[ethyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]

Use of substance/preparation: Antioxidant/stabilizer for use in polymers.

Supplier: Chemtura Corporation
199 Benson Road
Middlebury, CT 06749 USA

Emergency telephone number: CHEMTREC (24 hours) 800-424-9300
Chemtura Corporation Emergency Response (24 hours) 800-292-5898

Environmental, Health and Safety Department: 866-430-2775

Prepared by Product Safety Department Date of Issue: 06/27/2007
(US) +1 866-430-2775
(EU) +44 (0) 1753.603.000
Email: MSDSRequest@chemtura.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION!

MAY CAUSE EYE IRRITATION.

AVOID DISPERSION OF DUST IN AIR TO REDUCE POTENTIAL FOR DUST IGNITION/EXPLOSIONS.

3. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT

% BY WEIGHT

No hazardous ingredients
CAS# -

4. FIRST AID MEASURES

Swallowing

Do not induce vomiting. Rinse mouth with water. Obtain medical attention.

Inhalation

Remove to fresh air. Obtain medical attention if symptoms persist.



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Skin contact

Wash skin with soap and water. No harmful effects expected.

Eye contact

Immediately flush eyes with water and continue washing for at least 15 minutes. Obtain medical attention if discomfort persists.

5. FIRE-FIGHTING MEASURES

Flash point: 500 °F 260 °C
Flammable limits:
Lower limit: Not available
Upper limit: Not available
Autoignition temperature: 273 °C

NFPA CLASSIFICATION

Health: 0	Flammability: 3	Reactivity: 0	Special provisions: No data available.
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Hazardous combustion products

Oxides of carbon.
Oxides of nitrogen.

Special fire fighting procedures

Do not discharge extinguishing waters into streams, rivers and lakes.

Special protective equipment for firefighters

Body covering protective clothing, full "turn-out" gear.
Self-contained breathing apparatus.

Extinguishing media

Suitable:

- CO2
- dry powder
- foam
- water fog

Unsuitable: - water spray

Unusual fire and explosion hazards

Avoid dispersion of dust in air to reduce potential for dust ignition/explosions.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear suitable protective equipment., Do not breath dust., Eliminate sources of ignition., Avoid contact with skin and eyes.

Environmental precautions

Prevent from entering sewer system, surface water or soil.

Methods for cleaning up

Avoid dispersion of dust.
Sweep up and collect in a suitable container for disposal.

7. HANDLING AND STORAGE

HANDLING



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Handling precautions

Normal precautions common to good safety practice should be followed in handling., Use with adequate ventilation., Avoid breathing dust., Keep container tightly closed., Keep away from sources of ignition - No smoking.

STORAGE

Storage requirements

Keep container tightly closed in a cool, well-ventilated place., Protect from heat., In case of occurrence of dust, risk of dust explosion.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES

PERSONAL PROTECTION

Respiratory protection

Dust respirator, if dusting conditions exist.

Hand protection / protective gloves

Chemical resistant protective gloves

Eye protection

Safety glasses with side shields.

Skin protection

Wear protective clothing, such as long sleeves to minimize skin contact.

ENGINEERING CONTROLS

Ventilation

General mechanical room ventilation is satisfactory for normal handling and storage operations.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical state	Powder Granular solid
Color	White
Odor	Negligible
Odor threshold	Not available

OTHER PROPERTIES

Boiling point	Not applicable
Melting point	170 - 180 °C 338 - 356 °F
Solidification	Not available
pH	Not available
Specific gravity (H2O=1)	Not available
Density	Not available
Vapor pressure	
Solubility in water	Insoluble
Solubility in organic solvents	Partially soluble
Partitioning coefficient	Not available



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Flash point 500 °F
260 °C

Autoignition temperature 273 °C

Upper explosion limits Not available

Lower explosion limits Not available

Percent volatiles Not available

10. STABILITY AND REACTIVITY

Stability: This product is stable under normal storage and handling conditions.

Stability - Conditions to avoid:

Strong oxidizing agents.
Acids.
Bases.

Hazardous combustion products:

Oxides of carbon.
Oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION

SWALLOWING

Test results

Acute toxicity: LD50 Rat
Result: > 10 g/kg

Test results

Chronic toxicity: subchronic - Dog, Rat
Remark: No evidence of harmful effects from available information.

SKIN CONTACT

Test results

Skin irritation: Species: Rabbit
Result: Non irritating.

EYE CONTACT

Test results

Eye irritation: Species: Rabbit
Result: Slight

SENSITIZATION

Test results:

Species: Skin - Guinea pigs
Result: Negative



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12. ECOLOGICAL INFORMATION

Not expected to be acutely toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

General: Dispose of in accordance with appropriate Federal, State, and local regulations., Avoid discharge to sewers and natural waters.

14. TRANSPORT INFORMATION

DOT Classification

This product is not regulated by DOT.

IMDG Classification

This product is not regulated by IMDG.

ICAO Classification

This product is not regulated by ICAO.

15. REGULATORY INFORMATION

Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of hazardous substances equal to or greater than the reportable quantities (RQ's) in 40CFR302.4.

Components present in this product at a level which could require reporting under the statute are:

**** NONE ****

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPO's) and release reporting based on Reportable Quantities (RQ's) in 40CFR355 (used for SARA 302 and 304).

Components present in this product at a level which could require reporting under the statute are:

**** NONE ****

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40CFR372 (for SARA 313). This information must be included in MSDS's that are copied and distributed for this material.

Components present in this product at a level which could require reporting under the statute are:

**** NONE ****

New Jersey Worker and Community Right-To-Know Act (Labeling Requirements)

Chemical name

CAS#

New Jersey TS Number

(1,2-dioxoethylene)bis(iminoethylene)
bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]

70331-94-1

EPA Hazard Categories (SARA 311, 312):

None

California Proposition 65

**** NONE ****

CHEMICAL INVENTORY

Canada:

This product is on the DSL.



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Europe: The ingredients of this mixture are on the EINECS inventory.
United States: This product is on the TSCA inventory.
Australia: This product is on the AICS inventory.
China: This product is on the IECSC Inventory.
Japan: This product is on the ENCS inventory.
Korea: The ingredients of this product are on the ECL.
Philippines: This product is not listed or exempt from listing on the Philippines Inventory of Chemicals and Chemical Substances (PICCS).

Food contact
 This product has numerous FDA clearances. Please contact the Product Safety and Regulatory Affairs Department of Chemtura Corp. for details.

16. OTHER INFORMATION

HMIS RATING

Health: 0	Flammability: 3	Reactivity: 0	PPI: X
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STP	Standard temperature and pressure
W/W	Weight/Weight
0 (HMIS)	0 (HMIS)
1 (HMIS)	Slight hazard
2 (HMIS)	Moderate hazard
3 (HMIS)	Serious hazard
4 (HMIS)	Severe hazard
X (HMIS)	Personal protection rating to be supplied by user depending on use conditions

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