

MATERIAL SAFETY DATA SHEET

Ralox 46 (IONOL46)

degussa.

Material no.		Version	2.4 / US
Specification	141943	Revision date	05/17/2006
Order Number		Print Date	08/03/2006
		Page	1 / 8

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information

Trade name : Ralox 46 (IONOL46)
Use of the Substance / : Antioxidant
Preparation
Company : Degussa Corporation
379 Interpace Parkway
Parsippany, NJ 07054
USA

Telephone : 973-541-8000

Telefax : 973-541-8040

US: CHEMTREC EMERGENCY : 800-424-9300
NUMBER

CANADA: CANUTEC : 613-996-6666
EMERGENCY NUMBER

Product Regulatory Services : 973-541-8060

2. COMPOSITION/INFORMATION ON INGREDIENTS

Other information

This product does not contain any components considered to be health hazards under the OSHA Hazard Communication Standard 29 CFR 1910.1200 or under the WHMIS Controlled Product Regulations in Canada.

3. HAZARDS IDENTIFICATION

*** EMERGENCY OVERVIEW ***

Form-powder *Color-light cream* **Odor-Odorless.**

Dust may be irritating to respiratory tract.
Dust may form explosive mixture in air.

POTENTIAL HEALTH EFFECTS

Eye contact

No hazard expected in normal use.

Skin Contact

No hazard expected in normal use.

MATERIAL SAFETY DATA SHEET

Ralox 46 (IONOL46)

degussa.

Material no.		Version	2.4 / US
Specification	141943	Revision date	05/17/2006
Order Number		Print Date	08/03/2006
		Page	2 / 8

Inhalation

Dust causes irritation.

Ingestion

No hazard expected in normal use.

4. FIRST AID MEASURES

Inhalation

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If unconscious, evaluate the need for artificial respiration. Get immediate medical attention.

Skin contact

Wash with water and soap as a precaution.

Eye contact

In case of contact, immediately flush eyes with plenty of water. Obtain medical attention if irritation develops.

Ingestion

If swallowed, do NOT induce vomiting. Have victim drink 8-10 ounces of water to dilute material in stomach. Get medical attention immediately. Never give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

Flash point 190 °C , 374 °F

Suitable extinguishing media

Use water spray or fog, foam, dry chemical or CO2.

Extinguishing media which must not be used for safety reasons

high volume water jet

Specific hazards during fire fighting

Formation of flammable or explosive dust/air mixtures possible.

Special protective equipment for fire-fighters

As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

Further information

Containers can build up pressure if exposed to heat (fire). Cool with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Do not breathe vapours/dust.

Wear personal protective equipment; see section 8.

MATERIAL SAFETY DATA SHEET

Ralox 46 (IONOL46)

degussa.

Material no.		Version	2.4 / US
Specification	141943	Revision date	05/17/2006
Order Number		Print Date	08/03/2006
		Page	3 / 8

Environmental precautions

Obey relevant local, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

Methods for cleaning up

Collect material and place in a disposal container.

7. HANDLING AND STORAGE

Handling

Safe handling advice

Avoid contact with skin, eyes and clothing.

Use with adequate ventilation.

Minimize dust generation and accumulation.

May form flammable dust-air mixtures.

Avoid breathing dust.

Storage

Requirements for storage areas and containers

Keep away from heat. Store in a cool, dry place. Keep container closed when not in use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component occupational exposure guidelines

- **exposure limit for dust**

CAS-No.

Control parameters 15 mg/m³

Time Weighted Average (TWA)
Permissible Exposure Limit (PEL):(OSHA
Z1)

Total dust.

5 mg/m³

Time Weighted Average (TWA)
Permissible Exposure Limit (PEL):(OSHA
Z1)

Respirable fraction.

10 mg/m³

Inhalable fraction.

Time Weighted Average (TWA):(ACGIH)

3 mg/m³

Respirable fraction.

Time Weighted Average (TWA):(ACGIH)

Engineering measures

If use operations generate dust, use ventilation to keep exposure to airborne contaminants below the exposure limit.

MATERIAL SAFETY DATA SHEET

Ralox 46 (IONOL46)

degussa.

Material no.		Version	2.4 / US
Specification	141943	Revision date	05/17/2006
Order Number		Print Date	08/03/2006
		Page	4 / 8

Personal protective equipment

Respiratory protection

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

Hand protection

Use impermeable gloves.

Eye protection

Wear safety glasses with side shields. In case dusts are formed, wear close fitting protective goggles.

Skin and body protection

A safety shower and eye wash fountain should be readily available.

To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

Hygiene measures

No eating, drinking, smoking, or snuffing tobacco at work. Wash face and/or hands before break and end of work.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	powder
Color	light cream
Odor	Odorless.

Safety data

pH	4 - 7
Melting point/range	125 - 132 °C
Flash point	190 °C
Relative density	1.070 (20 °C)
Bulk density	300 kg/m ³
Water solubility	negligible
Partition coefficient (n-octanol/water)	POW: 6.25

10. STABILITY AND REACTIVITY

Conditions to avoid	Keep away from heat and sources of ignition.
Materials to avoid	acids, Alkalies., strong oxidizing agents, bases

MATERIAL SAFETY DATA SHEET

Ralox 46 (IONOL46)

degussa.

Material no.		Version	2.4 / US
Specification	141943	Revision date	05/17/2006
Order Number		Print Date	08/03/2006
		Page	5 / 8

Hazardous decomposition products carbon dioxide, carbon monoxide;

Thermal decomposition Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

Product General Toxicity Information Toxicological data relevant for classification are not available.

12. ECOLOGICAL INFORMATION

General Ecological Information There are no ecological data available.
Avoid release to the environment.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL

Advice on disposal Waste must be disposed of in accordance with federal, state, provincial and local regulations.

14. TRANSPORT INFORMATION

Transport/further information

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

Information on ingredients / Non-hazardous components

This product contains the following non-hazardous components

6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol			
CAS-No.	119-47-1	Percent (Wt./ Wt.)	98.79 %

US Federal Regulations

OSHA

If listed below, chemical specific standards apply to the product or components:

- None listed

MATERIAL SAFETY DATA SHEET

Ralox 46 (IONOL46)

degussa.

Material no.		Version	2.4 / US
Specification	141943	Revision date	05/17/2006
Order Number		Print Date	08/03/2006
		Page	6 / 8

Clean Air Act Section (112)

If listed below, components present at or above the de minimus level are hazardous air pollutants:

- None listed

CERCLA Reportable Quantities

If listed below, a reportable quantity (RQ) applies to the product based on the percent of the named component:

- None listed

SARA Title III Section 311/312 Hazard Categories

The product meets the criteria only for the listed hazard classes:

- Acute Health Hazard

SARA Title III Section 313 Reportable Substances

If listed below, components are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

- None listed

Toxic Substances Control Act (TSCA)

If listed below, non-proprietary substances are subject to export notification under Section 12 (b) of TSCA:

- None listed

State Regulations

California Proposition 65

A warning under the California Drinking Water Act is required only if listed below:

- None listed

MATERIAL SAFETY DATA SHEET

Ralox 46 (IONOL46)

degussa.

Material no.		Version	2.4 / US
Specification	141943	Revision date	05/17/2006
Order Number		Print Date	08/03/2006
		Page	7 / 8

International Chemical Inventory Status

Unless otherwise noted, this product is in compliance with the inventory listing of the countries shown below. For information on listing for countries not shown, contact Degussa Corporation Product Regulatory Department:

• Europe (EINECS/ELINCS)	Listed/registered
• USA (TSCA)	Listed/registered
• Canada (DSL)	Listed/registered
• Australia (AICS)	Listed/registered
• Japan (MITI)	Listed/registered
• Korea (TCCL)	Listed/registered
• Philippines (PICCS)	Listed/registered
• China	Not listed/Not registered

16. OTHER INFORMATION

HMIS Ratings

Health :	0
Flammability :	1
Physical Hazard :	0

Further information

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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. 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.

MATERIAL SAFETY DATA SHEET

Ralox 46 (IONOL46)

degussa.

Material no.		Version	2.4 / US
Specification	141943	Revision date	05/17/2006
Order Number		Print Date	08/03/2006
		Page	8 / 8