

This Safety Data Sheet cancels and replaces all preceding SDS for this product.

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

#### 1.1 Product identifier

#### 860171 TDI1291

NATURAL SPEARMINT DURAROME®

© Firmenich product

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

Concentrated aromatic raw material.

Not for personal use in this form or concentration.

For manufacturing use only.

#### 1.3 Details of the supplier of the safety data sheet

#### Colin McIntosh, PhD; Chemist

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Tel.:+1.609.452.10.00 - Fax.:+1.609.275.72.38

#### 1.4 Emergency telephone number

FOR INFORMATION OR IN AN EMERGENCY CALL CHEMTREC @ 1-800-424-9300 or 1-703-527-3887.

#### 2 HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

# 2.1.1 Classification according to Regulation (EC) N° 1272/2008 [CLP/GHS]

Skin Sensitization - Cat. 1 H317 Environmental Hazard (chronic) - Cat. 4 H413

#### 2.1.2 Classification according to 67/548/EEC or 1999/45/EC

Symbols:

Xi Irritant

6355678

**Risks Phrases:** 

R43 May cause sensitization by skin contact.

#### 2.1.3 Additional information

Full text of R- and S-phrases: see section 16

## 2.2 Label elements

US

Reference:

Date of printing: 26-APR-2011

Product: 860171 TDI1291 - NATURAL SPEARMINT DURA

Revised on: 01-Dec-2010 / v 6.1

Page 1 / 9



This Safety Data Sheet cancels and replaces all preceding SDS for this product.

# Hazard pictograms:



#### Signal Word:

Warning

#### **Hazard Statements:**

H317 May cause an allergic skin reaction.

H413 May cause long lasting harmful effects to aquatic life.

#### **Precautionary Statements:**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

#### **Hazard Inducers:**

2-Cyclohexen-1-One, 2-Methyl-5-(1-Methylethenyl)-

#### 2.3 Other hazards

No data available at this time.

#### **3 COMPOSITION/INFORMATION ON INGREDIENTS**

Mixture of aromatic substances.

6355678

Contains:

Reference:

US

Revised on: 01-Dec-2010 / v 6.1
Date of printing: 26-APR-2011

Product: 860171 TDI1291 - NATURAL SPEARMINT DURA

Page 2 / 9



This Safety Data Sheet cancels and replaces all preceding SDS for this product.

5.0 - 7.5% 2-Cyclohexen-1-one, 2-methyl-5-(1-methylethenyl)-

N° CAS: 0000099-49-0 / N° EINECS: 202-759-5

Classification: Xn - R22,R43

GHS Classification:

Acute Toxicity (oral) - Cat. 4 Skin Sensitization - Cat. 1

0.1 - 0.5% limonene

> N° CAS: 0000138-86-3 / N° EINECS: 205-341-0 Classification: Xn N - R38,R43,R50/53,R65,R10

GHS Classification: Skin Irritation - Cat. 2 Skin Sensitization - Cat. 1

Environmental Hazard (acute) - Cat. 1 Environmental Hazard (chronic) - Cat. 1

#### 4 FIRST-AID MEASURES

# 4.1 Description of first aid measures

General information:

As in all cases of potential poisoning, Obtain medical advice immediately.

In case of eye contact:

In the event of contact with the eyes, irrigate with water for at least 15 minutes; obtain medical advice if irritation persists.

In case of inhalation:

In the event of exposure to vapors, immediately remove from the area to a fresh air environment. Individuals showing evidence of inhalation exposure should be taken to an uncontaminated area. Obtain medical advice immediately.

In case of skin contact:

Remove contaminated clothes. Wash skin with large volumes of water.

If irritation persists, or any sign of tissue damage is apparent, obtain medical advice immediately.

In case of ingestion:

In the event of accidental ingestion, rinse mouth with water. Give up to one tumbler (half pint) of milk or water.

Obtain medical advise immediately.

6355678

Do not induce vomiting, obtain medical advise immediately.

#### 4.2 Most important symptoms and effects, both acute and delayed

No information available on the product itself.

4.3 Indication of immediate medical attention and special treatment needed

None known.

US

Reference:

#### **5 FIRE-FIGHTING MEASURES**

#### 5.1 Extinguishing media

Date of printing: 26-APR-2011

Product: 860171 TDI1291 - NATURAL SPEARMINT DURA

Revised on: 01-Dec-2010 / v 6.1



This Safety Data Sheet cancels and replaces all preceding SDS for this product.

In the event of fire, adequate extinguishers should be used. Avoid inhalation of smoke and fumes. In case of insufficient ventilation, wear suitable respiratory equipment.

Use standard procedures and preferred extinguishing media as stated below.

Extinguishing media: Water, foam, carbon dioxide or dry chemical.

#### 5.2 Special hazard arising from the substance or mixture

Product is a combustible powder. Like all combustible powders, it may form explosive mixtures if suspended in air

## 5.3 Advice for fire-fighters

No specific advice.

#### **6 ACCIDENTAL RELEASE MEASURES**

## 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Adequate protective gloves should be worn when handling spillages. No smoking. Avoid naked flames or other potential sources of ignition (eg. electrical equipment).

Avoid skin contamination and inhalation of dust.

Individual washing routines should be followed after any potential contact.

Ensure adequate ventilation in working areas following accidental releases.

For emergency personnel:

Apply the same recommendations as section 6.1

#### 6.2 Environmental precautions

Do not discharge directly into drains, air, into soil or into the aquatic environment.

#### 6.3 Methods and material for containment and cleaning up

For containment:

Small Spills can be swept up and disposed of properly.

Do not allow powder to accumulate on horizontal surfaces, as an explosive dust/air mixture could occur if suddenly dispersed into the air.

Vapors may cause vomiting and nausea. Wear appropriate respiratory protection.

For cleaning-up:

Spillages should be disposed of in accordance with Governmental Regulations.

#### **7 HANDLING AND STORAGE**

#### 7.1 Precautions for safe handling

Keep strict control of dust accumulation to a minimum.

Avoid contact with skin and eyes.

Wear adequate protective gloves protection and eye/face protection.

No smoking. Avoid any source of ignition. Use flameproof electrical equipment and spark-reduced tools.

Ensure that all equipments are properly bonding and earthing.

Avoid exposing to high temperature during processing.

Do not ingest or apply to the skin as such. Good personal washing routines should be followed.

Page

Maintain adequate local and general ventilation where product is handled.

#### 7.1.1 Protective measures

Revised on : 01-Dec-2010 / v 6.1

Reference: US 6355678 Date of printing: 26-APR-2011

Product: 860171 TDI1291 - NATURAL SPEARMINT DURA

4 / 9



This Safety Data Sheet cancels and replaces all preceding SDS for this product.

Keep strict control of dust accumulation to a minimum. Maintain adequate local and general ventilation where product is handled. Avoid any sources of ignition.

#### 7.1.2 Advice on general occupational hygiene

Good personal washing routines should be followed.

#### 7.2 Conditions for safe storage, including any incompatibilities

It is good general practice to store in closed, preferably full, containers away from heat sources, and protected from extremes of temperature. Do not re-use the empty container.

Respect generals rules for compatibility storage.

# 7.3 Specific end use(s)

Not available at this time.

#### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

0000138-86-3 : d-Limonene (All forms)

AIHA Workplace Environmental Exposure Levels (1999-JAN)

TWA (1999-JAN): 30 ppm, 8 hours (All forms)

#### 8.2 Exposure controls

Avoid exposing to high temperature during processing.

Maintain adequate local and general ventilation where product is handled.

#### 8.2.1 Appropriate engineering controls

Maintain adequate local and general ventilation where product is handled and dispensed.

#### 8.2.2 Environmental exposure controls

Not available at this time. Minimize release to the environment.

#### 8.3 Personal protection

Reference:

US

Respiratory protection: Breathing of the vapors or dust particles may be hazardous. In the absence of appropriate engineering controls such as spot ventilation, ventilated enclosures, etc., workers should avail themselves of the appropriate NIOSH approved respiratory protection. OSHA has established limits for Respirable dust (PEL of 5 mg/m3) TWA and Total dust (PEL of 15 mg/m3) TWA. It is recommended that when using powders that air monitoring of the workplace be conducted to ensure that these levels are not exceeded.

Hand protection: Adequate Protective Gloves should be worn.

Eye protection: Adequate safety glasses should be used.

Skin protection: Wear protective clothing, overall if necessary to limit the odour contamination of personal clothing. Individual washing routines should be followed after any potential contact.

# 9 PHYSICAL AND CHEMICAL PROPERTIES

6355678

#### 9.1 Information on basic physical and chemical properties

Appearance: GRANULAR POWDER

Colour: **BEIGE TO TAN** 

> Date of printing: 26-APR-2011 Product: 860171 TDI1291 - NATURAL SPEARMINT DURA

Revised on: 01-Dec-2010 / v 6.1



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Odour : Characteristic strong odour

according to the commercial description of the substance.

pH: Not applicable Melting point/range (°C): Not available Initial boiling point/range (°C): Not available

Flash point (closed cup): > 212 Fahrenheit (> 100 Centigrade)

Evaporation rate : Not available Flammability (solid/gas) : Not available Upper/lower flammability or explosive Not available

limits:

Vapor pressure (At 20°C in mm Hg)

:

Reference:

US

6355678

Calculated vapor pressure (At 20°C < 0.1 mm

in mm Hg):

Vapour density: Not available Relative density (d 20/20): Not available Water solubility (20°C): Not applicable Partition coef. (n-octanol/water): Not applicable Auto-ignition temperature (°C): Not available Not available Decomposition temperature: Viscosity: Not available Oxidizing properties: Not available

VOC Content less than: 8%

#### 9.2 Other safety information

#### 9.2.1 Explosive properties (Measured)

No data available at this time.

Please refer to section 9.2.2.

# 9.2.2 Default Safety Data for Spray Dryer Dust Compounds

Using our experience in Powder operations and internal "Safety Dust Data Base Results", we established the following "Default Parameters Profile". Theses "Default Parameters" should never be used for production, storage, transportation or any other industrial purpose.

On all cases, if specific data are needed, the physical measurement is the best way to get data of our compounds.

Value	Units
> 150 < 8 Not applica > 1000 > 1000 > 100	mJ mJ °C
MELI < 300	°C bars.m/s
	> 150 < 8 Not applica > 1000 > 1000 > 100 MELT

Revised on : 01-Dec-2010 / v 6.1

Date of printing: 26-APR-2011

Product: 860171 TDI1291 - NATURAL SPEARMINT DURA

Page 6 / 9



This Safety Data Sheet cancels and replaces all preceding SDS for this product.

- Pmax (abs) < 11 Bars 2 - St - Resistivity > 1.E10 Ohm.m

#### 10 STABILITY AND REACTIVITY

#### 10.1 Reactivity

No reaction known with water.

#### 10.2 Chemical stability

Presents no significant reactivity hazard. Normally stable even at elevated temperatures and pressures. Avoid temperatures above or near to the flash point. Not pyrophoric nor reactive with water. Does not undergo explosive decomposition, is shock stable, and is not an oxygen donor. Does not form explosive mixtures with other organic materials. Will not undergo hazardous exothermic polymerization.

## 10.3 Possibility of hazardous reactions

Not known.

#### 10.4 Conditions to avoid

Avoid temperatures above or at least 5 °C below flash point for any flammable liquids.

Do not heat closed containers.

Avoid contact with oxidizing agents.

#### 10.5 Incompatible materials

Avoid strong oxidizing agents.

#### 10.6 Hazardous decomposition products

Contact with water or storage under recommended conditions for one year should not produce dangerous decomposition products.

#### 11 TOXICOLOGICAL INFORMATION

This preparation has not been subjected to toxicological testing as an entity but has been blended from materials with established toxicological bibliographies. In view of the difficulty of using current standard toxicological evaluation techniques to predict potential hazards to susceptible individuals or arising from unforeseeable potentiation, this preparation should be considered and handled as if it displayed health hazards and treated in consequence with all possible precaution.

# 12 ECOLOGICAL INFORMATION

This preparation has not been subjected to ecotoxicological testing as an entity. In view of the difficulty of using current standard ecotoxicological evaluation techniques to predict the impact of particular modes of release on vulnerable or localised parts of the ecosystem, this preparation should be considered and handled as if it displayed potential environmental hazards, and treated in consequence with all possible precaution.

#### 13 DISPOSAL CONSIDERATIONS

6355678

US

Reference:

Date of printing: 26-APR-2011 Product: 860171 TDI1291 - NATURAL SPEARMINT DURA

Revised on: 01-Dec-2010 / v 6.1

<sup>[1]</sup> The minimum ignition temperature of a dust cloud is the lowest temperature at which a surface in contact with an explosive mixture of combustible dust and air can ignited the mixture. The temperature for this powder is not below 120°C and we have to heat up to around 200-300°C or more for possible gases decomposition ignition.

<sup>[2]</sup> The smoldering /glow temperature can only be determined for substances that do not decompose, melt or evaporate before smoldering. In this case the MSDS mentioned "MELT". This powder melt around 120-130°C already before burning.



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Minimize release to the environment.

## **14 TRANSPORT INFORMATION**

In case of accidental spillage or fire during transport, refer to instructions given under points 5, 6, 7 and 8 above.

#### 14.1 UNO

UN-No: Not regulated

Proper Shipping Name: N/A Class: ---- Packing Group: ---

#### 14.2 Land transport (ADR/RID)

UN-No: Not regulated

Proper Shipping Name: N/A Class: ---- Packing group: ---

#### 14.3 Sea transport (IMDG-Code)

UN-No: Not regulated

Proper Shipping Name: N/A Class: ---- Packing group: ---

#### 14.4 Air transport (ICAO-IATA)

UN-No: Not regulated

Proper Shipping Name: N/A Class: ---- Packing group: ---

# **15 REGULATORY INFORMATION**

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

# NFPA Hazard Classification Health: 2 Flammability: 1 Reactivity: 0

This mixture contains no toxic chemical or chemicals subject to reporting requirements of Section 313 of Title III of the Superfund Amendements and Reauthorization Act of 1986 and 29 CFR Part 1910.1200.

#### 15.2 Chemical Safety Assessment

No data available at this time.

Revised on : 01-Dec-2010 / v 6.1

Reference : US 6355678

Date of printing : 26-APR-2011

Product: 860171 TDI1291 - NATURAL SPEARMINT DURA

Page 8 / 9



This Safety Data Sheet cancels and replaces all preceding SDS for this product.

#### **16 OTHER INFORMATION**

#### 16.1 Revisions

01-Dec-2010: Version 1.0 - First version validated for publication

#### 16.2 Key literature references

RIFM database **OECD SIDS EU IUCLID** Supplier information

#### 16.3 Risk & Safety Phrases used under section 2

R43 May cause sensitization by skin contact.

S24 Avoid contact with skin. **S37** Wear suitable gloves.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN: Wash with plenty of soap and water. P302+P352

If skin irritation or rash occurs: Get medical advice/attention. P333+P313

P391 Collect spillage.

Wash contaminated clothing before reuse. P363

#### 16.4 Risk Phrases used under section 3

Reference:

US

6355678

R10 Flammable.

R22 Harmful if swallowed. R38 Irritating to skin.

R43 May cause sensitization by skin contact.

Very toxic to aquatic organisms, may cause long-term adverse effects in the R50/53

aquatic environment.

R65 Harmful: may cause lung damage if swallowed.

We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and the conditions of use of the product are not within the control of Firmenich, it is the user's obligation to determine conditions of safe use of the product.

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> Revised on: 01-Dec-2010 / v 6.1 Date of printing: 26-APR-2011 Product: 860171 TDI1291 - NATURAL SPEARMINT DURA