



FRAGRANCES AND FLAVORS  
ESSENTIAL OILS  
FINE CHEMICALS  
INSECT PESTS CONTROL SYSTEMS  
PHEROMONES  
HYDROPONICS SYSTEMS  
AGRO ACTIVES PHYTOPROTECTION PRODUCTS  
PLANT NUTRITION

**CHEMICAL & AGRICULTURAL INDUSTRY, RESEARCH S.A.**

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**PRODUCT SAFETY DATA SHEET**

(According to Directive 2001/58 E.C)

**1a. IDENTIFICATION**

**ORANGE 2808 N/21**

**1b. MANUFACTURER**

**VIORYL S.A.**

**2. COMPOSITION / INFORMATION OF INGREDIENTS**

The material is a flavour compound, the composition of which is confidential business information.

Aromatic part:

Natural flavouring preparations.

Contains: Orange oil (17-20)% R38-R43-R50-R53

CAS: 8028-48-6, EINECS: 232-433-8, FEMA: 2825

R65-R10 [F.P.: (40 -50)°C]

CAS: 8008-57-9

Orange oil Terpenless FEMA : 2826

Nature identical flavouring substances

Contains: d-Limonene (3,66-4,66)% R38-R43-R50-R53 CAS: 5989-27-5, EINECS: 227-81-35, FEMA: 2633

R10 (F.P.  $\approx$  48°C)

Solvent

Ethanol 96° (35-45)% R11 [F.P. (12-15)°C] CAS: 64-17-5, EINECS: 200-578-6, FEMA: 2625

**3. HAZARD IDENTIFICATION**

Irritant to skin

May cause sensitization by skin contact

Toxic to aquatic organisms, may cause long – term adverse effects in the aquatic environment.

**4. FIRST AID MEASURES**

**Ingestion:** Rinse mouth with water. Give a glass/cup of milk/water to drink. Obtain medical advice immediately.

**Skin contact:** Remove contaminated clothing. Wash off skin immediately with plenty of water, using soap. If persistent irritation is apparent, obtain medical advice immediately.

**Eye contact:** Immediately rinse the eyes with plenty of water. If persistent irritation is apparent, obtain medical advice immediately.

**5. FIRE - FIGHTING MEASURES**

**Extinguishing media:** CO<sub>2</sub>, foam, dry chemical. Never use a direct water jet.

**Combustion products:** CO/CO<sub>2</sub> smoke.

**Special protective equipment:** None.

**6. ACCIDENTAL RELEASE MEASURES**

Remove all sources of ignition. Provide proper ventilation. Absorb the material on a porous, inert material such as earth, sand or vermiculite and disposed off in accordance with local regulations. Large spillages should be contained by the use of sand or another inert material, transferred to a suitable container and recovered or disposed off in accordance with local regulations.

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**7. HANDLING AND STORAGE**

Store at a constant temperature, preferably around 15°C in dry, well ventilated conditions in full, sealed containers.  
Keep away from sources of ignition.  
Avoid contact with skin and eyes.  
Avoid breathing vapours especially if the material is hot.

**8. EXPOSURE CONTROL / PERSONAL PROTECTION**

Well ventilated conditions, gloves, suitable clothes, shoes and eye glasses, are recommended.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: Yellow, oily liquid.
Odour	: Characteristic.
Flash point	: 23°C < Flash Point < 60,5°C
Water solubility (0,1%)	: Soluble.
Solubility in other solvents (10%)	: Soluble in ethyl alcohol.
Refractive index (25 °C)	: 1,410± 0,005

**10. STABILITY AND REACTIVITY**

Stable under normal conditions.  
Strong oxidising materials should be avoided.

**11. TOXICOLOGICAL DATA**

See section 3, 15.  
No further data available.

**12. ECOLOGICAL INFORMATION**

None available.

**13. DISPOSABLE CONSIDERATIONS**

No special methods are necessary, but disposal should be according to the requirements of local regulations.

**14. TRANSPORT INFORMATION**

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

UN number	1169
Class	3.3
Un packaging group	III
IMDG Code	3344

**15. REGULATORY INFORMATION**

15.1. Classification in accordance with the Directives 67/548 EC and 1999/45 EC as amended:

Xi Irritant

N Dangerous for the environment

F Flammable

Risk Phrases

R38 < Irritant to skin

R43 < May cause sensitization by skin contact

R51/R53 < Toxic to aquatic organism, may cause long-term adverse effects in the aquatic environment.

R10 < Flammable

Safety Phrases

S24 < Avoid contact with skin

S57 < Use appropriate container to avoid environment contamination

S61 < Avoid release to the environment. Refer to special instructions / Safety data sheets.

S16 < Keep away from sources of ignition. No smoking.

**16. OTHER INFORMATION**

In compiling this MSDS we have taken into account all information provided by the suppliers about the ingredients - according to the respective MSDS - of the above product.

11/05/2009