



VITUSA PRODUCTS™  
INCORPORATED  
MATERIAL SAFETY DATA SHEET

**VITUSA PRODUCTS, INC.**

**Product: SODIUM METHYLATE SOLUTION 30% IN METHANOL (NM-30)**

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Material no.	Version	1.1 / US
Specification <b>115769</b>	Revision date	11/03/2004
Order Number	Print Date	11/03/2004
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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product information

Trade name : Sodium methylate solution 30% in methanol (NM-30)  
Use of the Substance / : Preliminary / intermediate product for organic syntheses  
Preparation :  
function : Organic intermediate/s

Company : Degussa Corporation  
379 Interpace Parkway  
Parsippany, NJ 07054  
USA

Telephone : 973-541-8000

Telefax : 973-541-8040

**US: CHEMTREC EMERGENCY NUMBER** : 800-424-9300

**CANADA: CANUTEC EMERGENCY NUMBER** : 613-996-6666

Product Regulatory Services : 973-541-8060

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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### Chemical nature

preparation of:

### Information on ingredients / Hazardous components

<u>sodium methoxide</u>			
CAS-No.	124-41-4	Percent (Wt./ Wt.)	30 %
<u>methanol</u>			
CAS-No.	67-56-1	Percent (Wt./ Wt.)	70 %

### Other information

This material is classified as hazardous under OSHA regulations.

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### 3. HAZARDS IDENTIFICATION

#### \*\*\* EMERGENCY OVERVIEW \*\*\*

*Form*-viscous liquid    *Colour*-colourless    *Odour*-alcoholic

Flammable. Also toxic by inhalation and if swallowed. Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. Causes burns.

Risk advice to man and the environment Formation of flammable or explosive vapour/air mixtures possible.

#### POTENTIAL HEALTH EFFECTS

##### Eye contact

Causes eye burns.

##### Skin Contact

Toxic. Harmful if absorbed through the skin.  
Causes skin burns.

##### Inhalation

Highly toxic by inhalation of aerosol or mist.

##### Ingestion

Methanol is toxic if ingested and may cause effects varying from discomfort, to blindness, to death, depending on amount swallowed.  
Causes digestive tract burns.

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### 4. FIRST AID MEASURES

#### General advice

Remove contaminated or saturated clothing immediately and dispose off safely.

#### Inhalation

Provide fresh air, seek medical advice if necessary.  
Monitor breathing, give oxygen if necessary.

#### Skin contact

Wash off with plenty of water immediately, seek medical advice if necessary.

#### Eye contact

Rinse immediately with plenty of water for 15 minutes and seek advice of an eye specialist.  
Immediate further treatment in eye clinic/by eye doctor. continue rinsing eye until arrival at ophthalmic hospital.

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#### 4. FIRST AID MEASURES (CONTINUED)

##### Ingestion

Do not induce vomiting.  
Seek medical advice immediately.  
Only when patient fully conscious:  
Clean mouth with water and drink afterwards plenty of water.

##### Notes to physician

methanol

Possible discomfort:

Daze

Gastrointestinal discomfort

Breathing difficulties

Spasm

Antidote treatment: ethanol.

Symptoms upon increasing intoxication: dysopia, loss of eyesight.

If substance has been swallowed:

Early endoscopy in order to assess mucosa lesions which may appear in the oesophagus and stomach.

If necessary, suck away leftover substance.

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#### 5. FIRE-FIGHTING MEASURES

Flash point: 32 °C, 90 °F  
Method: DIN 51 755

Lower explosion limit: 5.5 % (V)  
related to substance: methanol

Upper explosion limit: 44 % (V)  
related to substance: methanol

Autoignition temperature: ca. 445 °C  
Method: DIN 51 794

##### Suitable extinguishing media

Water spray, foam, CO2, dry powder

##### Extinguishing media which must not be used for safety reasons

high volume water jet

##### Specific hazards during fire fighting

In case of fire cool endangered containers with water.

##### Special protective equipment for fire-fighters

In case of fire: Have ready/wear respiratory protection equipment. Wear suitable protective clothing.

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## 5. FIRE-FIGHTING MEASURES (CONTINUED)

### Further information

Water used to extinguish fire should not enter drainage systems, soil, or stretches of water. Ensure there are sufficient retaining facilities for water used to extinguish fire. Contaminated fire-extinguishing water must be disposed of in accordance with the regulations issued by the appropriate local authorities. Fire residues should be disposed of in accordance with the regulations.

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear personal protective equipment; see section 8.  
Ensure adequate ventilation.  
Keep away from sources of ignition - No smoking.

### Environmental precautions

Do not allow entrance in soil, stretches of water, drainage systems.

### Methods for cleaning up

Take up mechanically or with an absorbent material.  
Suitable binder: absorbent for liquids, universal absorbent

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## 7. HANDLING AND STORAGE

### Handling

#### Safe handling advice

Handle and open container with care.  
Provide good ventilation or extraction.

#### Advice on protection against fire and explosion

Take precautionary measures against static discharges.  
Keep away from sources of ignition - No smoking.

### Storage

#### Requirements for storage areas and containers

Keep containers tightly closed in a cool, well-ventilated place.  
Protect from moisture.  
Explosion protection equipment required.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Occupational exposure controls

#### • methanol

CAS-No. 67-56-1

Control parameters 200 ppm  
250 ppm

Time Weighted Average (TWA):(ACGIH)  
Short Term Exposure Limit  
(STEL):(ACGIH)  
Skin designation:(ACGIH)

Can be absorbed through the skin.

200 ppm  
260 mg/m<sup>3</sup>

PEL:(OSHA Z1)

### Engineering measures

Provide adequate ventilation.

### Personal protective equipment

#### Respiratory protection

In case of dusts/vapours/aerosols being formed or if the limit values like TLV are exceeded:  
use respiratory equipment with suitable filter (filter type ABEK) or wear a self contained respiratory apparatus

### Hand protection

Recommendation:  
suitable protective gloves

Glove material butyl-rubber  
Break through time > 480 min  
Method DIN EN 374, Source: COMASEC GmbH

### Eye protection

close-fitting protective goggles (e.g. closed goggles)

### Hygiene measures

Avoid contact with skin and eyes.  
Remove immediately all contaminated clothing.  
Smoking, eating and drinking should be prohibited in the application area.  
Wash hands before breaks and at the end of workday.

### Protective measures

Use protective clothing / face shield if necessary.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form: viscous liquid  
Colour: colourless  
Odour: alcoholic

Safety data

pH: 13 (20 g/l) (20 °C)

Melting point/range: -98 °C  
related to substance: methanol

Boiling point/range: 92 °C (1013 hPa)  
Method: DIN 51 751  
start of boiling

Flash point: 32 °C  
Method: DIN 51 755

Autoignition temperature: ca. 445 °C  
Method: DIN 51 794

Lower explosion limit: 5.5 % (V)  
related to substance: methanol

Upper explosion limit: 44 % (V)  
related to substance: methanol

Vapour pressure: 45 hPa (20 °C)

Density: ca. 0.97 g/cm<sup>3</sup> (20 °C)  
Method: DIN 51757

Water solubility: partly miscible  
partial decomposition by hydrolysis

Partition coefficient (n-octanol/water) log  $P_{ow}$ : -0.77  
(measured)  
related to substance: methanol

Viscosity, dynamic: 68 mPa·s (20 °C)

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## 10. STABILITY AND REACTIVITY

Conditions to avoid	Protect from moisture.
Materials to avoid	acids, oxidizing agents, humid air and water
Hazardous decomposition products	Decomposition products from hydrolysis in water sodium hydroxide solution, methanol
Thermal decomposition	Reacts in case of hydrolysis faintly exothermic.
formation of flammable gases	In use, may form flammable/explosive vapour-air mixture.
Hazardous reactions	Exothermic reaction with: water acids oxidizing agents Evolution of hydrogen with: various metals e.g.: aluminium, magnesium, zinc (Formation of detonating gas with atmospheric oxygen).
Further information	hydrolysis with: water atmospheric humidity

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## 11. TOXICOLOGICAL INFORMATION

Product Acute oral toxicity	toxic related to substance: methanol
Product Acute inhalation toxicity	toxic related to substance: methanol
Product Skin irritation	corrosive Hazardous by absorption through the skin.
Product Eye irritation	Risk of blinding on contact with eyes. related to substance: methanol
Component teratogenicity assessment	methanol 67-56-1 Potential embryo-foetal toxicity and teratogenicity.

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## 12. ECOLOGICAL INFORMATION

General Ecological Information No data available

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## 13. DISPOSAL CONSIDERATIONS

### WASTE

Advice on disposal Waste must be disposed of in accordance with local, state, provincial and federal laws and regulations. Empty containers must be handled with care due to product residue.

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## 14. TRANSPORT INFORMATION

### D.O.T. Road/Rail

Class	3
UN-No	1289
Packing group	III
Subsidiary risk	8
Proper shipping name	Sodium <u>methylate</u> solutions

### Sea transport IMDG-Code

Class	3
UN-No	1289
Packaging group	III
Subsidiary risk	8
EmS	F-E, S-C
Proper technical name (Proper shipping name)	SODIUM METHYLATE SOLUTION

### Air transport ICAO-TII/IATA-DGR

Class	3
UN-No	1289
Packaging group	III
Subsidiary risk	8
Proper technical name (Proper shipping name)	Sodium <u>methylate</u> solution

### Loading instructions/Remarks

IATA_C	ERG-Code 3C
IATA_P	ERG-Code 3C
IATA_C	USA: Observe RQ
IATA_P	USA: Observe RQ
IMDG	USA: Observe RQ

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## 15. REGULATORY INFORMATION

### US Federal Regulations

#### OSHA

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

- None listed

#### Clean Air Act Section (112)

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

- methanol  
CAS-No. 67-56-1

#### CERCLA Reportable Quantities

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

- sodium methoxide  
CAS-No. 124-41-4  
Reportable Quantity 3333 lbs

#### SARA Title III Section 311/312 Hazard Categories

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

- Acute Health Hazard
- Fire Hazard
- Reactivity 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:

- methanol  
CAS-No. 67-56-1

#### Toxic Substances Control Act (TSCA)

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

- None listed

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## 15. REGULATORY INFORMATION (CONTINUED)

### State Regulations

#### California Proposition 65

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

- None listed

#### 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](#):

- |                       |                           |
|-----------------------|---------------------------|
| • USA (TSCA)          | Not listed/Not registered |
| • Australia (AICS)    | Not listed/Not registered |
| • Japan (MITI)        | Not listed/Not registered |
| • Korea (TCCL)        | Not listed/Not registered |
| • Philippines (PICCS) | Not listed/Not registered |
| • China               | Not listed/Not registered |

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## 16. OTHER INFORMATION

### HMIS Ratings

Health:	3
Flammability:	3
Physical Hazard:	1

### 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.

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