



# Fisher Scientific

Part of Thermo Fisher Scientific

## SAFETY DATA SHEET

Creation Date 02-Feb-2012

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Revision Number 1

### 1. Identification

**Product Name** Flex 95  
**Cat No. :** 22046346  
**Synonyms** No information available  
**Recommended Use** Laboratory chemicals.  
**Uses advised against** No Information available  
**Details of the supplier of the safety data sheet**

|                                                                                                                                                           |                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Company</b><br>Richard Allan Scientific<br>A Subsidiary of Thermo Fisher Scientific<br>4481 Campus Drive<br>Kalamazoo, MI 49008<br>Tel: (800) 522-7270 | <b>Emergency Telephone Number</b><br>Chemtrec US: (800) 424-9300<br>Chemtrec EU: 001 (202) 483-7616 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|

### 2. Hazard(s) identification

#### **Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|                                                            |            |
|------------------------------------------------------------|------------|
| Flammable liquids                                          | Category 2 |
| Acute oral toxicity                                        | Category 3 |
| Acute dermal toxicity                                      | Category 3 |
| Acute Inhalation Toxicity - Dusts and Mists                | Category 3 |
| Serious Eye Damage/Eye Irritation                          | Category 2 |
| Specific target organ toxicity (single exposure)           | Category 1 |
| Target Organs - Central nervous system (CNS), Optic nerve. |            |
| Specific target organ toxicity - (repeated exposure)       | Category 1 |
| Target Organs - Kidney, Liver, spleen.                     |            |

#### **Label Elements**

##### **Signal Word**

Danger

##### **Hazard Statements**

Highly flammable liquid and vapor  
Toxic if swallowed  
Toxic in contact with skin  
Causes serious eye irritation  
Toxic if inhaled  
May cause drowsiness or dizziness  
Causes damage to organs

Causes damage to organs through prolonged or repeated exposure



### Precautionary Statements

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Use only outdoors or in a well-ventilated area  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
 Keep container tightly closed  
 Ground/bond container and receiving equipment  
 Use explosion-proof electrical/ventilating/lighting/equipment  
 Use only non-sparking tools  
 Take precautionary measures against static discharge  
 Keep cool

#### Response

IF exposed: Call a POISON CENTER or doctor/physician

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Call a POISON CENTER or doctor/physician

#### Skin

Call a POISON CENTER or doctor/physician if you feel unwell  
 Wash contaminated clothing before reuse  
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 If eye irritation persists: Get medical advice/attention

#### Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
 Rinse mouth

#### Fire

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

#### Storage

Store locked up  
 Store in a well-ventilated place. Keep container tightly closed

#### Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

#### Other hazards

Poison, may be fatal or cause blindness if swallowed. Vapor harmful. Cannot be made non-poisonous. WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

### 3. Composition / information on ingredients

| Component         | CAS-No  | Weight % |
|-------------------|---------|----------|
| Isopropyl alcohol | 67-63-0 | 57 - 63  |
| Methyl alcohol    | 67-56-1 | 37 - 43  |

#### 4. First-aid measures

|                                        |                                                                                                                                                                                                                                                           |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye Contact</b>                     | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.                                                                                                                         |
| <b>Skin Contact</b>                    | Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.                                                                                                                                                              |
| <b>Inhalation</b>                      | Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Immediate medical attention is required. |
| <b>Ingestion</b>                       | Do not induce vomiting. Call a physician or Poison Control Center immediately.                                                                                                                                                                            |
| <b>Most important symptoms/effects</b> | Breathing difficulties. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting                                                                                                               |
| <b>Notes to Physician</b>              | Treat symptomatically                                                                                                                                                                                                                                     |

#### 5. Fire-fighting measures

|                                         |                                                                                                                            |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable Extinguishing Media</b>     | CO <sub>2</sub> , dry chemical, dry sand, alcohol-resistant foam. Cool closed containers exposed to fire with water spray. |
| <b>Unsuitable Extinguishing Media</b>   | Water may be ineffective                                                                                                   |
| <b>Flash Point</b>                      | 16.6 °C / 61.9 °F                                                                                                          |
| <b>Method -</b>                         | No information available                                                                                                   |
| <b>Autoignition Temperature</b>         | No information available                                                                                                   |
| <b>Explosion Limits</b>                 |                                                                                                                            |
| <b>Upper</b>                            | 36.0 vol %                                                                                                                 |
| <b>Lower</b>                            | 2.0 vol %                                                                                                                  |
| <b>Sensitivity to Mechanical Impact</b> | No information available                                                                                                   |
| <b>Sensitivity to Static Discharge</b>  | No information available                                                                                                   |

#### Specific Hazards Arising from the Chemical

Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated.

#### Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>) Formaldehyde peroxides

#### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

#### NFPA

|               |                     |                    |                         |
|---------------|---------------------|--------------------|-------------------------|
| <b>Health</b> | <b>Flammability</b> | <b>Instability</b> | <b>Physical hazards</b> |
| 3             | 3                   | 0                  | N/A                     |

#### 6. Accidental release measures

|                                             |                                                                                                                                                                                 |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal Precautions</b>                 | Remove all sources of ignition. Take precautionary measures against static discharges. Do not get in eyes, on skin, or on clothing. Use personal protective equipment.          |
| <b>Environmental Precautions</b>            | Should not be released into the environment. See Section 12 for additional ecological information.                                                                              |
| <b>Methods for Containment and Clean Up</b> | Remove all sources of ignition. Soak up with inert absorbent material. Take precautionary measures against static discharges. Keep in suitable, closed containers for disposal. |

#### 7. Handling and storage

|                 |                                                                                    |
|-----------------|------------------------------------------------------------------------------------|
| <b>Handling</b> | Use only under a chemical fume hood. Wear personal protective equipment. Keep away |
|-----------------|------------------------------------------------------------------------------------|

from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Do not ingest.

**Storage**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Flammables area.

## 8. Exposure controls / personal protection

**Exposure Guidelines**

| Component         | ACGIH TLV                             | OSHA PEL                                                                                                                                                                                 | NIOSH IDLH                                                                                                    |
|-------------------|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Isopropyl alcohol | TWA: 200 ppm<br>STEL: 400 ppm         | (Vacated) TWA: 400 ppm<br>(Vacated) TWA: 980 mg/m <sup>3</sup><br>(Vacated) STEL: 500 ppm<br>(Vacated) STEL: 1225 mg/m <sup>3</sup><br>TWA: 400 ppm<br>TWA: 980 mg/m <sup>3</sup>        | IDLH: 2000 ppm<br>TWA: 400 ppm<br>TWA: 980 mg/m <sup>3</sup><br>STEL: 500 ppm<br>STEL: 1225 mg/m <sup>3</sup> |
| Methyl alcohol    | TWA: 200 ppm<br>STEL: 250 ppm<br>Skin | (Vacated) TWA: 200 ppm<br>(Vacated) TWA: 260 mg/m <sup>3</sup><br>(Vacated) STEL: 250 ppm<br>(Vacated) STEL: 325 mg/m <sup>3</sup><br>Skin<br>TWA: 200 ppm<br>TWA: 260 mg/m <sup>3</sup> | IDLH: 6000 ppm<br>TWA: 200 ppm<br>TWA: 260 mg/m <sup>3</sup><br>STEL: 250 ppm<br>STEL: 325 mg/m <sup>3</sup>  |

| Component         | Quebec                                                                                             | Mexico OEL (TWA)                                                                            | Ontario TWAEV                         |
|-------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------|
| Isopropyl alcohol | TWA: 400 ppm<br>TWA: 985 mg/m <sup>3</sup><br>STEL: 500 ppm<br>STEL: 1230 mg/m <sup>3</sup>        | TWA: 400 ppm<br>TWA: 980 mg/m <sup>3</sup><br>STEL: 500 ppm<br>STEL: 1225 mg/m <sup>3</sup> | TWA: 200 ppm<br>STEL: 400 ppm         |
| Methyl alcohol    | TWA: 200 ppm<br>TWA: 262 mg/m <sup>3</sup><br>STEL: 250 ppm<br>STEL: 328 mg/m <sup>3</sup><br>Skin | TWA: 200 ppm<br>TWA: 260 mg/m <sup>3</sup><br>STEL: 250 ppm<br>STEL: 310 mg/m <sup>3</sup>  | TWA: 200 ppm<br>STEL: 250 ppm<br>Skin |

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

**Engineering Measures**

Use only under a chemical fume hood. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

**Personal Protective Equipment****Eye/face Protection**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin and body protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory Protection**

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

Physical State

Liquid

|                                        |                               |
|----------------------------------------|-------------------------------|
| Appearance                             | Clear Colorless               |
| Odor                                   | Alcohol-like                  |
| Odor Threshold                         | No information available      |
| pH                                     | 5.0 - 7.3                     |
| Melting Point/Range                    | No data available             |
| Boiling Point/Range                    | 73 - 80 °C / 163.4 - 176.0 °F |
| Flash Point                            | 16.6 °C / 61.9 °F             |
| Evaporation Rate                       | 2.9 (Butyl Acetate = 1.0)     |
| Flammability (solid,gas)               | No information available      |
| Flammability or explosive limits       |                               |
| Upper                                  | 36.0 vol %                    |
| Lower                                  | 2.0 vol %                     |
| Vapor Pressure                         | 47 mmHg                       |
| Vapor Density                          | 1.4 (Air = 1.0)               |
| Relative Density                       | 0.82                          |
| Solubility                             | Soluble in water              |
| Partition coefficient; n-octanol/water | No data available             |
| Autoignition Temperature               | No information available      |
| Decomposition Temperature              | No information available      |
| Viscosity                              | No information available      |

## 10. Stability and reactivity

|                                  |                                                                                    |
|----------------------------------|------------------------------------------------------------------------------------|
| Reactive Hazard                  | None known, based on information available                                         |
| Stability                        | Stable under normal conditions.                                                    |
| Conditions to Avoid              | Incompatible products. Heat, flames and sparks.                                    |
| Incompatible Materials           | Acid chlorides, Metals, Strong oxidizing agents, Peroxides, Acids, Acid anhydrides |
| Hazardous Decomposition Products | Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Formaldehyde, peroxides   |
| Hazardous Polymerization         | Hazardous polymerization does not occur.                                           |
| Hazardous Reactions              | None under normal processing.                                                      |

## 11. Toxicological information

### Acute Toxicity

|             |                                                                            |
|-------------|----------------------------------------------------------------------------|
| Oral LD50   | Category 3. ATE = 50 - 300 mg/kg.                                          |
| Dermal LD50 | Category 3. ATE = 200 - 1000 mg/kg.                                        |
| Vapor LC50  | Based on ATE data, the classification criteria are not met. ATE > 20 mg/l. |

### Component Information

| Component         | LD50 Oral          | LD50 Dermal                                   | LC50 Inhalation                                |
|-------------------|--------------------|-----------------------------------------------|------------------------------------------------|
| Isopropyl alcohol | 5840 mg/kg ( Rat ) | 13900 mg/kg ( Rat )<br>12870 mg/kg ( Rabbit ) | 72.6 mg/L ( Rat ) 4 h                          |
| Methyl alcohol    | 6200 mg/kg ( Rat ) | 15800 mg/kg ( Rabbit )                        | 64000 ppm ( Rat ) 4 h<br>22500 ppm ( Rat ) 8 h |

**Toxicologically Synergistic Products** No information available

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

|                 |                                                                                          |
|-----------------|------------------------------------------------------------------------------------------|
| Irritation      | Irritating to eyes and skin                                                              |
| Sensitization   | No information available                                                                 |
| Carcinogenicity | The table below indicates whether each agency has listed any ingredient as a carcinogen. |

| Component | CAS-No | IARC | NTP | ACGIH | OSHA | Mexico |
|-----------|--------|------|-----|-------|------|--------|
|           |        |      |     |       |      |        |

|                   |         |            |            |            |            |            |
|-------------------|---------|------------|------------|------------|------------|------------|
| Isopropyl alcohol | 67-63-0 | Not listed | Not listed | Not listed | Not listed | Not listed |
| Methyl alcohol    | 67-56-1 | Not listed | Not listed | Not listed | Not listed | Not listed |

IARC: (International Agency for Research on Cancer)

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

|                                                   |                                                                                                                                                    |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Mutagenic Effects</b>                          | No information available                                                                                                                           |
| <b>Reproductive Effects</b>                       | Experiments have shown reproductive toxicity effects on laboratory animals.                                                                        |
| <b>Developmental Effects</b>                      | Developmental effects have occurred in experimental animals. Component substance is listed on California Proposition 65 as a developmental hazard. |
| <b>Teratogenicity</b>                             | Teratogenic effects have occurred in experimental animals.                                                                                         |
| <b>STOT - single exposure</b>                     | Central nervous system (CNS) Optic nerve                                                                                                           |
| <b>STOT - repeated exposure</b>                   | Kidney Liver spleen                                                                                                                                |
| <b>Aspiration hazard</b>                          | No information available                                                                                                                           |
| <b>Symptoms / effects, both acute and delayed</b> | Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting                                |
| <b>Endocrine Disruptor Information</b>            | No information available                                                                                                                           |
| <b>Other Adverse Effects</b>                      | See actual entry in RTECS for complete information.                                                                                                |

## 12. Ecological information

### Ecotoxicity

| Component         | Freshwater Algae                               | Freshwater Fish                                                       | Microtox                                                                        | Water Flea                                      |
|-------------------|------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------|
| Isopropyl alcohol | 1000 mg/L EC50 > 96 h<br>1000 mg/L EC50 > 72 h | 1400000 µg/L LC50 96 h<br>11130 mg/L LC50 96 h 9640<br>mg/L LC50 96 h | = 35390 mg/L EC50<br>Photobacterium<br>phosphoreum 5 min                        | 13299 mg/L EC50 = 48 h<br>9714 mg/L EC50 = 24 h |
| Methyl alcohol    | Not listed                                     | Pimephales promelas: LC50<br>> 10000 mg/L 96h                         | EC50 = 39000 mg/L 25 min<br>EC50 = 40000 mg/L 15 min<br>EC50 = 43000 mg/L 5 min | EC50 > 10000 mg/L 24h                           |

|                                      |                           |
|--------------------------------------|---------------------------|
| <b>Persistence and Degradability</b> | No information available  |
| <b>Bioaccumulation/ Accumulation</b> | No information available. |

### Mobility

| Component         | log Pow |
|-------------------|---------|
| Isopropyl alcohol | 0.05    |
| Methyl alcohol    | -0.74   |

## 13. Disposal considerations

**Waste Disposal Methods** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

| Component                | RCRA - U Series Wastes | RCRA - P Series Wastes |
|--------------------------|------------------------|------------------------|
| Methyl alcohol - 67-56-1 | U154                   | -                      |

## 14. Transport information

### DOT

|                              |                         |
|------------------------------|-------------------------|
| <b>UN-No</b>                 | UN1987                  |
| <b>Proper Shipping Name</b>  | ALCOHOLS, N.O.S.        |
| <b>Proper technical name</b> | (ISOPROPANOL, METHANOL) |

|                         |                  |
|-------------------------|------------------|
| Hazard Class            | 3                |
| Packing Group           | II               |
| <b>TDG</b>              |                  |
| UN-No                   | UN1987           |
| Proper Shipping Name    | ALCOHOLS, N.O.S. |
| Hazard Class            | 3                |
| Subsidiary Hazard Class | 6.1              |
| Packing Group           | II               |
| <b>IATA</b>             |                  |
| UN-No                   | UN1987           |
| Proper Shipping Name    | ALCOHOLS, N.O.S. |
| Hazard Class            | 3                |
| Subsidiary Hazard Class | 6.1              |
| Packing Group           | II               |
| <b>IMDG/IMO</b>         |                  |
| UN-No                   | UN1987           |
| Proper Shipping Name    | ALCOHOLS, N.O.S. |
| Hazard Class            | 3                |
| Subsidiary Hazard Class | 6.1              |
| Packing Group           | II               |

## 15. Regulatory information

### International Inventories

| Component         | TSCA | DSL | NDSL | EINECS    | ELINCS | NLP | PICCS | ENCS | AICS | IECSC | KECL |
|-------------------|------|-----|------|-----------|--------|-----|-------|------|------|-------|------|
| Isopropyl alcohol | X    | X   | -    | 200-661-7 | -      |     | X     | X    | X    | X     | X    |
| Methyl alcohol    | X    | X   | -    | 200-659-6 | -      |     | X     | X    | X    | X     | X    |

#### Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B)).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

### U.S. Federal Regulations

TSCA 12(b) Not applicable

### SARA 313

| Component         | CAS-No  | Weight % | SARA 313 - Threshold Values % |
|-------------------|---------|----------|-------------------------------|
| Isopropyl alcohol | 67-63-0 | 57 - 63  | 1.0                           |
| Methyl alcohol    | 67-56-1 | 37 - 43  | 1.0                           |

### SARA 311/312 Hazardous Categorization

|                                   |     |
|-----------------------------------|-----|
| Acute Health Hazard               | Yes |
| Chronic Health Hazard             | Yes |
| Fire Hazard                       | Yes |
| Sudden Release of Pressure Hazard | No  |
| Reactive Hazard                   | No  |

Clean Water Act Not applicable

**Clean Air Act**

| Component      | HAPS Data | Class 1 Ozone Depletors | Class 2 Ozone Depletors |
|----------------|-----------|-------------------------|-------------------------|
| Methyl alcohol | X         |                         | -                       |

**OSHA** Occupational Safety and Health Administration  
Not applicable

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Component      | Hazardous Substances RQs | CERCLA EHS RQs |
|----------------|--------------------------|----------------|
| Methyl alcohol | 5000 lb                  | -              |

**California Proposition 65** This product contains the following Proposition 65 chemicals:

| Component      | CAS-No  | California Prop. 65 | Prop 65 NSRL | Category      |
|----------------|---------|---------------------|--------------|---------------|
| Methyl alcohol | 67-56-1 | Developmental       | -            | Developmental |

**State Right-to-Know**

| Component         | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|-------------------|---------------|------------|--------------|----------|--------------|
| Isopropyl alcohol | X             | X          | X            | -        | X            |
| Methyl alcohol    | X             | X          | X            | X        | X            |

**U.S. Department of Transportation**

Reportable Quantity (RQ): Y  
DOT Marine Pollutant N  
DOT Severe Marine Pollutant N

**U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

**Other International Regulations**

**Mexico - Grade** Serious risk, Grade 3

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

**WHMIS Hazard Class** B2 Flammable liquid  
D2A Very toxic materials  
D1A Very toxic materials

**16. Other information**

**Prepared By** Regulatory Affairs  
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**Creation Date** 02-Feb-2012  
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**Print Date** 26-Jan-2015



**Revision Summary**

This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

**Disclaimer**

**The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.**

**End of SDS**