SEM

Printing date 01/31/2008

Reviewed on 01/31/2008

### 1 Identification of substance

- · Product details
- · Trade name: 39683 Self Etching Primer Gray
- · Article number: 39683
- · Application of the substance / the preparation Aerosol metal primer
- · Manufacturer/Supplier: SEM Products Inc. 651 Michael Wylie Dr. Charlotte, NC 28217 (704)522-1006
- · Information department:

labsupport@sem.ws : SEM Products 651 Michael Wylie Dr. Charlotte, NC 28217 : phone 1-704-522-1006, M - TH 7am - 4pm EDT

· Emergency information: 24 HR EMERGENCY CHEMTREC 1-800-424-9300

### 2 Composition/Data on components

- · Chemical characterization
- · Description: Mixture of the substances listed below with nonhazardous additions.

| O          | components:                                     |                   |
|------------|---|-------------------|
| 68476-86-8 | Petroleum gases, liquefied, sweetened           | 25-50%            |
|            | Danger: 🚸 2.2/1                                 |                   |
|            | Warning: 🔷 2.5/C                                |                   |
| 67-64-1    | acetone   | 10-25%            |
|            | Danger: 🚸 2.6/2                                 |                   |
|            | Warning: 🕠 3.3/2A, 3.8/3                        |                   |
| 110-19-0   | isobutyl acetate                                | 2.5-10%           |
|            | Danger:  2.6/2                                  |                   |
| 108-88-3   | toluene   | 2.5-10%           |
|            | Danger: 🚸 2.6/2; 🕸 3.10/1, 3.7/2                |                   |
|            | Warning: 1 3.2/2, 3.3/2A, 3.8/3                 |                   |
| 141-78-6   | ethyl acetate                                   | 2.5-10%           |
|            | Danger: 🚸 2.6/2                                 |                   |
|            | Warning: 🕚 3.3/2A, 3.8/3                        |                   |
| 78-93-3    | butanone  | 2.5-10%           |
|            | Danger: 🔞 2.6/2                                 |                   |
|            | Warning: 🕠 3.3/2A, 3.8/3                        |                   |
|            | MALEIC MODIFIED ROSIN RESIN                     | 2.5-10%           |
|            | Warning: 🕚 3.2/2, 3.3/2A, 3.8/3                 |                   |
| 9004-70-0  | CELLULOSE NITRATE                               | 2.5-10%           |
|            | Danger: 🕎 2.1 ; 🏟 3.1.0/3, 3.2/2, 3.3/2A, 3.8/3 |                   |
| 64742-94-5 | Solvent naphtha (petroleum), heavy arom.        | 2.5-10%           |
|            | Danger: 🗞 3.10/1                                |                   |
| 123-86-4   | n-butyl acetate                                 | 1-2.5%            |
|            | Warning: (1) 2.6/3; (1) 3.8/3                   |                   |
|            | , v   | (Contd. on page 2 |

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SEM

Printing date 01/31/2008 Reviewed on 01/31/2008

Trade name: 39683 Self Etching Primer Gray

| (7.62.0    |                                   | (Contd. of pag |
|------------|-----------------------------------|----------------|
| 0/-03-0    | propan-2-ol                       | 1-2.5          |
|            | Danger: 🚸 2.6/2                   |                |
|            | Warning: <b>1</b> 3.3/2A, 3.8/3   |                |
| 14808-60-7 | Quartz (SiO2)                     | 1-2.5          |
|            | Danger: 🚳 3.6/1B, 3.8/2           |                |
|            | Warning: 💠 3.3/2A                 |                |
| 1330-20-7  | xylene                            | 1-2.5          |
|            | Danger: 🔗 3.1.D/3, 3.1.I/4, 3.2/2 |                |
|            | <i>Warning:</i> <b>(a)</b> 2.6/3  |                |
| 14807-96-6 | Talc (Mg3H2(SiO3)4)               | 1-2.5          |
|            | Warning: 🕚 3.2/2, 3.3/2A, 3.8/3   |                |
| 1330-78-5  | tris(methylphenyl) phosphate      | ≤1%            |
|            | Danger: 🕸 3.8/1                   |                |
|            | <b>♦</b> 4.1.C/2                  |                |
| 84-74-2    | dibutyl phthalate                 | ≤1%            |
|            | Danger: 🚯 3.7/1B                  |                |
|            | Warning: <b>4.1.A/1</b>           |                |

### 3 Hazards identification

### · Hazard description:





Toxic Extremely flammable

### · Information pertaining to particular dangers for man and environment:

The product has to be labelled due to the calculation procedure of international guidelines.

Warning! Pressurized container.

May cause cancer by inhalation.

May cause harm to the unborn child.

Extremely flammable.

Irritating to eyes.

Danger of serious damage to health by prolonged exposure.

Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

Possible risk of harm to the unborn child.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

85.4 % by mass of the contents are flammable

Keep out of the reach of children.

### · Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· NFPA ratings (scale 0 - 4)



Health = 2 Fire = 4 Reactivity = 0

(Contd. on page 3)

SEM

Printing date 01/31/2008

Reviewed on 01/31/2008

Trade name: 39683 Self Etching Primer Gray

(Contd. of page 2)

#### · HMIS-ratings (scale 0 - 4)



### · GHS label elements



2.2/1 - Extremely flammable gas.

2.3/1 - Extremely flammable aerosol.



3.6/1B - May cause cancer.

3.7/1B - May damage fertility or the unborn child.

3.8/2 - May cause damage to organs.



3.3/2A - Causes serious eye irritation.

#### · Prevention:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Do not spray on an open flame or other ignition source.

Pressurized container: Do not pierce or burn, even after use.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear protective gloves/protective clothing/eye protection/face protection.

Use personal protective equipment as required.

### · Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed or concerned: Get medical advice/attention.

IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

*If eye irritation persists: Get medical advice/attention.* 

Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

Eliminate all ignition sources if safe to do so.

#### · Storage:

Store in a well-ventilated place.

Store locked up.

Protect from sunlight. Do no expose to temperatures exceeding 50°C/122°F.

### · Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations.

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Printing date 01/31/2008 Reviewed on 01/31/2008

Trade name: 39683 Self Etching Primer Gray

(Contd. of page 3)

### 4 First aid measures

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing: If symptoms persist consult doctor.

### 5 Fire fighting measures

- · Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Protective equipment: Wear self-contained respiatory protective device.

### 6 Accidental release measures

- · Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
- · Measures for environmental protection:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· Measures for cleaning/collecting:

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

### 7 Handling and storage

- · Handling:
- · Information for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

· Information about protection against explosions and fires:

Do not spray on a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

- · Storage:
- · Requirements to be met by storerooms and receptacles:

Store in a cool location.

Observe official regulations on storing packagings with pressurized containers.

- · Information about storage in one common storage facility: Store away from oxidizing agents.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

Do not gas tight seal receptacle.

Store in cool, dry conditions in well sealed receptacles.

(Contd. on page 5)

SEM

Printing date 01/31/2008

Reviewed on 01/31/2008

Trade name: 39683 Self Etching Primer Gray

Protect from heat and direct sunlight.

(Contd. of page 4)

| A 44: | tional information about design of technical systems. No funther data, see item 7   |
|-------|---|
|       | tional information about design of technical systems: No further data; see item 7.  ponents with limit values that require monitoring at the workplace: |
|       | 4-1 acetone   |
|       |   |
|       | 2400 mg/m³, 1000 ppm  |
|       | 590 mg/m³, 250 ppm  |
| ILV   | Short-term value: 1782 mg/m³, 750 ppm   |
|       | Long-term value: 1188 mg/m³, 500 ppm  |
| 110   | BEI   |
|       | 19-0 isobutyl acetate   |
|       | 700 mg/m³, 150 ppm  |
|       | 700 mg/m³, 150 ppm  |
|       | 713 mg/m³, 150 ppm  |
|       | 88-3 toluene  |
| PEL   | Short-term value: C 300; 500* ppm   |
|       | Long-term value: 200 ppm  |
|       | *10-min peak per 8-hr shift   |
| REL   | Short-term value: 560 mg/m³, 150 ppm  |
|       | Long-term value: 375 mg/m³, 100 ppm   |
|       | 75 mg/m³, 20 ppm  |
|       | 78-6 ethyl acetate  |
|       | 1400 mg/m³, 400 ppm   |
|       | 1400 mg/m³, 400 ppm   |
| TLV   | $1440 \text{ mg/m}^3$ , $400 \text{ ppm}$   |
| 78-9. | 3-3 butanone  |
| PEL   | 590 mg/m³, 200 ppm  |
| REL   | Short-term value: 885 mg/m³, 300 ppm  |
|       | Long-term value: 590 mg/m³, 200 ppm   |
| TLV   | Short-term value: 885 mg/m³, 300 ppm  |
|       | Long-term value: 590 mg/m³, 200 ppm   |
|       | BEI   |
| 123-  | 86-4 n-butyl acetate  |
|       | 710 mg/m³, 150 ppm  |
| REL   | Short-term value: 950 mg/m³, 200 ppm  |
|       | Long-term value: 710 mg/m³, 150 ppm   |
| TLV   | Short-term value: 950 mg/m³, 200 ppm  |
|       | Long-term value: 713 mg/m³, 150 ppm   |
| 67-6. | 3-0 propan-2-ol   |
|       | 980 mg/m³, 400 ppm  |
| REL   | Short-term value: 1225 mg/m³, 500 ppm   |
|       | Long-term value: 980 mg/m³, 400 ppm   |
| TLV   | Short-term value: 984 mg/m³, 400 ppm  |
|       | Long-term value: 492 mg/m³, 200 ppm   |

(Contd. on page 6)

SEM

Printing date 01/31/2008

Reviewed on 01/31/2008

Trade name: 39683 Self Etching Primer Gray

|       | (Contd. of page 5)                   |
|-------|--------------------------------------|
| 1480  | 8-60-7 Quartz (SiO2)                 |
| PEL   | see Quartz listing                   |
| REL   | $0.05* mg/m^3$                       |
|       | *respirable dust                     |
| TLV   | $0.025 \ R \ mg/m^3$                 |
| 1330  | -20-7 xylene                         |
| PEL   | 435 mg/m³, 100 ppm                   |
| REL   | Short-term value: 655 mg/m³, 150 ppm |
|       | Long-term value: 435 mg/m³, 100 ppm  |
| TLV   | Short-term value: 651 mg/m³, 150 ppm |
|       | Long-term value: 434 mg/m³, 100 ppm  |
|       | BEI                                  |
| 84-74 | 1-2 dibutyl phthalate                |
| PEL   | $5 \text{ mg/m}^3$                   |
| REL   | $5 \text{ mg/m}^3$                   |
| TLV   | $5 \text{ mg/m}^3$                   |

- · Additional information: The lists that were valid during the creation were used as basis.
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

#### · Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

### · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### · Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 7)

SEM

Printing date 01/31/2008 Reviewed on 01/31/2008

Trade name: 39683 Self Etching Primer Gray

(Contd. of page 6)

### · Eye protection:



Tightly sealed goggles

| General Information              |  |
|----------------------------------|--|
| <u> </u>                         |  |
| Form:                            | Aerosol  |
| Color:                           | According to product specification                       |
| Odor:                            | Characteristic   |
| Change in condition              |  |
| Melting point/Melting range:     | Undetermined.  |
| Boiling point/Boiling range:     |  |
| Flash point:                     | < -17°C (< 1°F)  |
| Ignition temperature:            | 405°C (761°F)  |
| Auto igniting:                   | Product is not selfigniting.                             |
| Danger of explosion:             | In use, may form flammable/explosive vapour-air mixture. |
| Explosion limits:                |  |
| Lower:                           | 1.9 Vol %  |
| Upper:                           | 13.0 Vol %   |
| Vapor pressure at 20°C (68°F):   | 233 hPa (175 mm Hg)                                      |
| Density at 20°C (68°F):          | 0.78 g/cm³   |
| Solubility in / Miscibility with |  |
| Water:                           | Not miscible or difficult to mix.                        |
| Solvent content:                 |  |
| Organic solvents:                | 85.3 %   |

### 10 Stability and reactivity

**VOC** content:

· Solids content:

- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Dangerous reactions No dangerous reactions known.

62.1 %

14.6 %

489.2 g/l / 4.08 lb/gl

· Dangerous products of decomposition:

Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

Hydrocarbons

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Printing date 01/31/2008

Reviewed on 01/31/2008

Trade name: 39683 Self Etching Primer Gray

(Contd. of page 7)

### 11 Toxicological information

· Acute toxicity:

| · LD/LC50 values that are relevant for classification: |             |                      |
|--|-------------|----------------------|
| 108-88-3 to  | oluene      |                      |
| Oral   | LD50        | 5000 mg/kg (rat)     |
| Dermal   | LD50        | 12124 mg/kg (rabbit) |
| Inhalative   | LC50/4 h    | 5320 mg/l (mouse)    |
| 84-74-2 dibutyl phthalate                              |             |                      |
| Oral   | LD50        | 8000 mg/kg (rat)     |
| Dermal   | <i>LD50</i> | 20000 mg/kg (rabbit) |

- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

Carcinogenic if inhaled.

### 12 Ecological information

· General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

### 13 Disposal considerations

- · Product:
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

### 14 Transport information

· DOT regulations:



· Hazard class:· Identification number:2.1UN1950

· Packing group:

(Contd. on page 9)

SEM

Printing date 01/31/2008 Reviewed on 01/31/2008

Trade name: 39683 Self Etching Primer Gray

(Contd. of page 8)

- · Proper shipping name (technical name): AEROSOLS, flammable
- **Label** 2.1
- · Land transport TDG (Canada) and ADR/RID (Europe):



· Hazard class:
· UN-Number:
· Packaging group:

• *Label:* 2.1

• Description of goods: 1950 AEROSOLS

· Maritime transport IMDG:



· IMDG Class: 2.1
 · UN Number: 1950
 · Label 2.1
 · Packaging group: · EMS Number: F-D,S-U

· Marine pollutant: No

· Propper shipping name: AEROSOLS

· Air transport ICAO-TI and IATA-DGR:



· ICAO/IATA Class: 2.1
 · UN/ID Number: 1950
 · Label 2.1

· Packaging group:

• Propper shipping name: AEROSOLS, flammable

· UN "Model Regulation": UN1950; AEROSOLS; 2.1; -

### 15 Regulations

· Sara

· Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

108-88-3 toluene 78-93-3 butanone 67-63-0 propan-2-ol

(Contd. on page 10)

Reviewed on 01/31/2008

Printing date 01/31/2008

Trade name: 39683 Self Etching Primer Gray

|                |  | (Contd. of page 9  |
|----------------|--|--------------------|
| 1330-20-7      | <u> </u>   |                    |
|                | Talc (Mg3H2(SiO3)4)                              |                    |
|                | dibutyl phthalate                                |                    |
| 67-56-1        | methanol   |                    |
|                | ACRYLIC RESIN                                    |                    |
| 100-41-4       | ethylbenzene                                     |                    |
| · TSCA (Toxi   | c Substances Control Act):                       |                    |
| 68476-86-8     | Petroleum gases, liquefied, sweetened            |                    |
| 67-64-1        | acetone  |                    |
| 110-19-0       | isobutyl acetate                                 |                    |
| 108-88-3       | toluene  |                    |
| 141-78-6       | ethyl acetate                                    |                    |
| <i>78-93-3</i> | butanone   |                    |
| 13463-67-7     | titanium dioxide                                 |                    |
| 64742-94-5     | Solvent naphtha (petroleum), heavy arom.         |                    |
| 123-86-4       | n-butyl acetate                                  |                    |
| 67-63-0        | propan-2-ol                                      |                    |
| 14808-60-7     | Quartz (SiO2)                                    |                    |
| 1330-20-7      | xylene   |                    |
| 14807-96-6     | Talc (Mg3H2(SiO3)4)                              |                    |
| 1330-78-5      | tris(methylphenyl) phosphate                     |                    |
| 84-74-2        | dibutyl phthalate                                |                    |
| · Proposition  | 65   |                    |
| · Chemicals k  | nown to cause cancer:                            |                    |
| 14808-60-7     | Quartz (SiO2)                                    |                    |
| 1330-20-7      | xylene   |                    |
| 68911-87-5     | ALKYL QUATERNARY AMMONIUM MONTMORILLONITE        |                    |
| 1333-86-4      | Carbon black                                     |                    |
| 100-41-4       | ethylbenzene                                     |                    |
| · Chemicals k  | nown to cause reproductive toxicity for females: |                    |
|                | ingredients is listed.                           |                    |
|                | nown to cause reproductive toxicity for males:   |                    |
|                | ingredients is listed.                           |                    |
| · Chemicals I  | nown to cause developmental toxicity:            |                    |
| 108-88-3 to    | luene  |                    |
| · Cancerogen   | ity categories                                   |                    |
| · EPA (Envir   | onmental Protection Agency)                      |                    |
| 67-64-1        | acetone  | D                  |
| 108-88-3       | toluene  | D                  |
| 78-93-3        | butanone   | D                  |
| 1330-20-7      | xylene   | D                  |
|                |  | (Contd. on page 11 |

Reviewed on 01/31/2008

Printing date 01/31/2008

Trade name: 39683 Self Etching Primer Gray

| 84-74-2    | dibutyl phthalate                                       | (Contd. of page           |
|------------|---|---------------------------|
|            | ethylbenzene  |                           |
|            | rnational Agency for Research on Cancer)                |                           |
| 108-88-3   |   | 3                         |
| 13463-67-7 | titanium dioxide  | 3                         |
| 67-63-0    | propan-2-ol   | 3                         |
| 14808-60-7 | Quartz (SiO2)   | 1                         |
| 1330-20-7  | xylene  | 3                         |
| 14807-96-6 | <i>Talc</i> ( <i>Mg3H2</i> ( <i>SiO3</i> )4)            | 3                         |
| 68911-87-5 | ALKYL QUATERNARY AMMONIUM MONTMORILLONITE               | TRACE AMOUNTS OF 14808-60 |
| 7631-86-9  | silicon dioxide, chemically prepared                    | 3                         |
| 1333-86-4  | Carbon black  | 2B                        |
| 111-76-2   | 2-butoxyethanol   | 3                         |
| 100-41-4   | ethylbenzene  | 2 <i>B</i>                |
| NTP (Natio | nal Toxicology Program)                                 |                           |
| 14808-60-7 | Quartz (SiO2)   |                           |
| TLV (Thres | hold Limit Value established by ACGIH)                  |                           |
| 67-64-1    | acetone   |                           |
| 108-88-3   | toluene   |                           |
| 13463-67-7 | titanium dioxide  |                           |
| 14808-60-7 | Quartz (SiO2)   |                           |
| 1330-20-7  | xylene  | F                         |
| 14807-96-6 | Talc (Mg3H2(SiO3)4)                                     |                           |
| 1333-86-4  | Carbon black  | 1                         |
| NIOSH-Ca   | (National Institute for Occupational Safety and Health) |                           |
| 13463-67-7 | titanium dioxide  |                           |
|            | Quartz (SiO2)   |                           |
| 14808-60-7 |   |                           |

### · Product related hazard informations:

The product has been classified and marked in accordance with directives on hazardous materials.

### · Hazard symbols:

**Toxic** 

Extremely flammable

### · Hazard-determining components of labelling:

Quartz (SiO2)

tris(methylphenyl) phosphate

toluene

dibutyl phthalate

### · Risk phrases:

May cause cancer by inhalation.

May cause harm to the unborn child.

(Contd. on page 12)

SEM

Printing date 01/31/2008 Reviewed on 01/31/2008

Trade name: 39683 Self Etching Primer Gray

(Contd. of page 11)

Extremely flammable.

Irritating to eyes.

Danger of serious damage to health by prolonged exposure.

Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

Possible risk of harm to the unborn child.

#### · Safety phrases:

Avoid exposure - obtain special instructions before use.

Keep locked up and out of the reach of children.

Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

Wear suitable protective clothing and gloves.

*In case of insufficient ventilation, wear suitable respiratory equipment.* 

### · Special labeling of certain preparations:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

85.4 % by mass of the contents are flammable

Keep out of the reach of children.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing MSDS: Environment protection department.
- · Contact: Steve Gaver

#### · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Reglement internationale concernent le transport des merchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

 $NFPA: National\ Fire\ Protection\ Association\ (USA)$ 

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

USA