

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
GHS

Printing date 10.05.2013

Revision: 10.05.2013

## 1 Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name: RockSolid Floors Industrial Write-On Paint**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the preparation** Paint
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
RockSolid Floors Industrial  
2271 2nd St N  
North St Paul, MN 55109  
Phone: 866-765-4310  
Fax: 763-780-4896
- **1.4 Emergency telephone number:**  
CHEMTREC  
1-800-424-9300 (US/Canada)  
+01 703-527-3887 (International)



## 2 Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS06 skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



T; Toxic

R23: Toxic by inhalation.

(Contd. on page 2)

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
GHS

Printing date 10.05.2013


Revision: 10.05.2013

**Trade name: RockSolid Floors Industrial Write-On Paint**

(Contd. of page 1)

 Xn; Sensitising

R42/43: May cause sensitisation by inhalation and skin contact.

 Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.

· **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS05 GHS06 GHS08

· **Signal word** Danger

· **Hazard-determining components of labelling:**

hexamethylene-di-isocyanate

3-Oxazolidineethanol, 2-(1-methylethyl)-, carbonate (2:1) (ester)

dibutyltin di(acetate)

· **Hazard statements**

H302 Harmful if swallowed.

H331 Toxic if inhaled.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

· **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P285 In case of inadequate ventilation wear respiratory protection.

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

P280 Wear protective gloves and eye protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

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

(Contd. on page 3)

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
GHS

Printing date 10.05.2013

Revision: 10.05.2013

**Trade name: RockSolid Floors Industrial Write-On Paint**

(Contd. of page 2)

P337+P313 If eye irritation persists: Get medical advice/attention.

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

· **Additional information:**

Contains isocyanates. May produce an allergic reaction.

Contains hexamethylene-di-isocyanate. May produce an allergic reaction.

Can become flammable in use.

· **Hazard description:**

· **WHMIS-symbols:**

D1A - Very toxic material causing immediate and serious toxic effects

D2A - Very toxic material causing other toxic effects



· **NFPA ratings (scale 0 - 4)**



Health = 3

Fire = 1

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = \*3

Fire = 1

Reactivity = 0

\* - Indicates a long term health hazard from repeated or prolonged exposures.

· **HMIS Long Term Health Hazard Substances**

822-06-0 | hexamethylene-di-isocyanate

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.· **vPvB:** Not applicable.

## 3 Composition/information on ingredients

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 822-06-0

EINECS: 212-485-8

Index number: 615-011-00-1

hexamethylene-di-isocyanate

Acute Tox. 3, H331

Resp. Sens. 1, H334

Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317;

STOT SE 3, H335

50-100%

(Contd. on page 4)














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according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
GHS

Printing date 10.05.2013

Revision: 10.05.2013

**Trade name: RockSolid Floors Industrial Write-On Paint**

		(Contd. of page 3)
CAS: 98-56-6 EINECS: 202-681-1	4-chloro-alpha,alpha,alpha-trifluorotoluene  Xi R36/37/38 R10 -----  Flam. Liq. 3, H226  Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	10-25%
CAS: 108-83-8 EINECS: 203-620-1 Index number: 606-005-00-X	2,6-dimethylheptan-4-one  Xi R37 R10 -----  Flam. Liq. 3, H226  STOT SE 3, H335	<10%
	Trade Secret  Xn R22;  R41 R52/53 -----  Eye Dam. 1, H318 Aquatic Chronic 3, H412	<10%
CAS: 1067-33-0 EINECS: 213-928-8	dibutyltin di(acetate)  T R25;  Xi R36/38 -----  Acute Tox. 2, H300  Skin Irrit. 2, H315; Eye Irrit. 2, H319	<2,0%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

## 4 First aid measures

### · 4.1 Description of first aid measures

#### · **General information:**

Immediately remove any clothing soiled by the product.  
Remove breathing equipment only after contaminated clothing have been completely removed.  
In case of irregular breathing or respiratory arrest provide artificial respiration.  
Take affected persons out into the fresh air.

#### · **After inhalation:**

Supply fresh air or oxygen; call for doctor.  
In case of irregular breathing or respiratory arrest provide artificial respiration.  
Do not use mouth to mouth or mouth to nose resuscitation.  
Use a respiratory bag or breathing device.  
In case of unconsciousness place patient stably in side position for transportation.

#### · **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.

#### · **After eye contact:**

Immediately remove contact lenses if possible.  
Rinse opened eye for several minutes under running water. Then consult a doctor.

#### · **After swallowing:**

Rinse out mouth and then drink plenty of water.  
Do not induce vomiting; call for medical help immediately.

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

Asthma attacks  
Breathing difficulty

(Contd. on page 5)

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
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Printing date 10.05.2013

Revision: 10.05.2013

**Trade name: RockSolid Floors Industrial Write-On Paint**

(Contd. of page 4)

Allergic reactions

Disorientation

Dizziness

Headache

Gastric or intestinal disorders

Cyanosis

- **Hazards**

- Danger of impaired breathing.

- Danger of disturbed cardiac rhythm.

- Danger of convulsion.

- Danger of pulmonary oedema.

- **4.3 Indication of any immediate medical attention and special treatment needed**

- Contains isocyanates. Consult literature for specific antidotes.

- Severe allergic skin reaction, bronchial spasms and anaphylactic shock are possible.

- Treat skin and mucous membrane with antihistamine and corticoid preparations.

- In cases of irritation to the lungs, initial treatment with corticoid steroid inhalants.

- If swallowed, gastric irrigation.

- Monitor circulation, possible shock treatment.

- If necessary oxygen respiration treatment.

- Medical supervision for at least 48 hours.

- Later observation for pneumonia and pulmonary oedema.

## 5 Firefighting measures

- **5.1 Extinguishing media**

- **Suitable extinguishing agents:**

- Alcohol resistant foam

- Gaseous extinguishing agents

- Fire-extinguishing powder

- Water in flooding quantities.

- **For safety reasons unsuitable extinguishing agents:** None.

- **5.2 Special hazards arising from the substance or mixture**

- During heating or in case of fire poisonous gases are produced.

- **5.3 Advice for firefighters**

- **Protective equipment:**

- Wear self-contained respiratory protective device.

- Do not inhale explosion gases or combustion gases.

- Wear fully protective suit.

- **Additional information**

- Eliminate all ignition sources if safe to do so.

- Evacuate area and fight fire from from the upwind side.

- Cool endangered receptacles with water fog or haze.

## 6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**

- Use respiratory protective device against the effects of fumes/dust/aerosol.

(Contd. on page 6)

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
GHS

Printing date 10.05.2013

Revision: 10.05.2013

**Trade name: RockSolid Floors Industrial Write-On Paint**

(Contd. of page 5)

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Isolate area and prevent access.

· **6.2 Environmental precautions:**

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

Prevent from spreading (e.g. by damming-in or oil barriers).

Do not allow to penetrate the ground/soil.

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

· **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Additional Spill Procedures/Neutralization: Neutralization solutions:

(1) Colorimetric Laboratories Inc. (CLI) decontamination solution.

(2) A mixture of 75% water, 20% non-ionic surfactant (e.g. Plurafac SL-62, Tergitol TMN-10) and 5% n-propanol.

(3) A mixture of 80% water, 20% non-ionic surfactant (e.g. Plurafac SL-62, Tergitol TMN-10).

(4) A mixture of 90% water, 3-8% ammonium hydroxide or concentrated ammonia, and 2% liquid detergent.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

· **7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

Take note of emission threshold.

· **Information about fire - and explosion protection:**

Keep respiratory protective device available.

Emergency cooling must be available in case of nearby fire.

When heated the product forms flammable fumes.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Avoid storage near extreme heat, ignition sources or open flame.

Store only in the original receptacle.

Provide ventilation for receptacles.

· **Information about storage in one common storage facility:**

Store away from foodstuffs.

Do not store together with acids.

Store away from oxidizing agents.

· **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

(Contd. on page 7)

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
GHS

Printing date 10.05.2013

Revision: 10.05.2013

**Trade name: RockSolid Floors Industrial Write-On Paint**

(Contd. of page 6)

Store receptacle in a well ventilated area.

Keep container tightly sealed.

- **7.3 Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

### 8.1 Control parameters

- **Ingredients with limit values that require monitoring at the workplace:**

#### 822-06-0 hexamethylene-di-isocyanate

REL (USA)	Short-term value: C 0,14* mg/m <sup>3</sup> , C 0,02* ppm Long-term value: 0,035 mg/m <sup>3</sup> , 0,005 ppm *10-min
TLV (USA)	0,034 mg/m <sup>3</sup> , 0,005 ppm
EL (Canada)	Short-term value: C 0,01 ppm Long-term value: 0,005 ppm S
EV (Canada)	0,005 ppm

#### 64742-47-8 Distillates (petroleum), hydrotreated light

EL (Canada)	200 mg/m <sup>3</sup> Skin
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#### 108-83-8 2,6-dimethylheptan-4-one

PEL (USA)	290 mg/m <sup>3</sup> , 50 ppm
REL (USA)	150 mg/m <sup>3</sup> , 25 ppm
TLV (USA)	145 mg/m <sup>3</sup> , 25 ppm
EL (Canada)	25 ppm
EV (Canada)	145 mg/m <sup>3</sup> , 25 ppm

#### 1067-33-0 dibutyltin di(acetate)

PEL (USA)	0,1 mg/m <sup>3</sup> as Sn
REL (USA)	0,1 mg/m <sup>3</sup> as Sn, Skin
TLV (USA)	Short-term value: 0,2 mg/m <sup>3</sup> Long-term value: 0,1 mg/m <sup>3</sup> as Sn; Skin
EL (Canada)	Short-term value: 0,2 mg/m <sup>3</sup> Long-term value: 0,1 mg/m <sup>3</sup> as Sn; Skin

- **DNELs** No further relevant information available.

- **PNECs** No further relevant information available.

- **Additional information:** The lists valid during the making were used as basis.

(Contd. on page 8)

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
GHS

Printing date 10.05.2013

Revision: 10.05.2013

**Trade name: RockSolid Floors Industrial Write-On Paint**

(Contd. of page 7)

- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**



Personal protective equipment must be selected to prevent inhalation of vapors and contact with skin and eyes. At a bare minimum, safety glasses, gloves, apron, and combination particle/vapor respirator should be worn. In some cases, supplied air, full body suits and boots will be needed.

The usual precautionary measures are to be adhered to when handling chemicals.

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.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

- **Respiratory protection:**

Combined Organic Vapor and Particulate Respirator is recommended for use during all processing activities.

- **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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**

Contact lenses should not be worn.

Safety glasses

- **Body protection:** Protective work clothing

- **Limitation and supervision of exposure into the environment**

No further relevant information available.

- **Risk management measures**

Organizational measures should be in place for all activities involving this product.

See Section 7 for additional information.

(Contd. on page 9)



# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
GHS

Printing date 10.05.2013

Revision: 10.05.2013

Trade name: RockSolid Floors Industrial Write-On Paint

No further relevant information available.

(Contd. of page 8)

## 9 Physical and chemical properties

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

#### · General Information

#### · Appearance:

· **Form:** Liquid

· **Colour:** According to product specification

· **Odour:** Characteristic

· **Odour threshold:** Not determined.

· **pH-value:** Not determined.

#### · Change in condition

· **Melting point/Melting range:** Undetermined.

· **Boiling point/Boiling range:** > 100 °C (> 212 °F)

· **Flash point:** 136 °C (277 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** Not determined.

· **Decomposition temperature:** Not determined.

· **Self-igniting:** Product is not self-igniting.

· **Danger of explosion:** Product does not present an explosion hazard.

#### · Explosion limits:

· **Lower:** 0,9 Vol %

· **Upper:** 9,5 Vol %

· **Vapour pressure:** Not determined.

· **Density:** Not determined.

· **Relative density** Not determined.

· **Vapour density** Not determined.

· **Evaporation rate** Not determined.

#### · Solubility in / Miscibility with water:

Fully miscible.

· **Partition coefficient (n-octanol/water):** Not determined.

#### · Viscosity:

· **Dynamic:** Not determined.

· **Kinematic:** Not determined.

#### · Solvent content:

· **Organic solvents:** Not determined.

· **Solids content:** Not determined.

(Contd. on page 10)

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
GHS

Printing date 10.05.2013

Revision: 10.05.2013

**Trade name: RockSolid Floors Industrial Write-On Paint**

(Contd. of page 9)

· **9.2 Other information** No further relevant information available.

## 10 Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**  
Toxic fumes may be released if heated above the decomposition point.  
Contact with acids releases toxic gases.  
Reacts with oxidizing agents.  
Reacts with alcohols, amines, aqueous acids and alkalis.  
Exothermic polymerization.
- **10.4 Conditions to avoid**  
Store away from oxidizing agents.  
Keep away from heat and direct sunlight.
- **10.5 Incompatible materials:** Contact with acids liberates toxic gases.
- **10.6 Hazardous decomposition products:**  
Hydrogen chloride (HCl)  
Hydrogen cyanide (prussic acid)  
Danger of toxic fluorine based pyrolysis products.  
Halogenated hydrocarbons  
Danger of forming toxic pyrolysis products.  
Toxic metal oxide smoke

## 11 Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

**822-06-0 hexamethylene-di-isocyanate**

Oral	LD50	738 mg/kg (rat)
Dermal	LD50	593 mg/kg (rat)

**1067-33-0 dibutyltin di(acetate)**

Oral	LD50	32 mg/kg (rat)
------	------	----------------

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:**  
Sensitization possible through inhalation.  
Sensitization possible through skin contact.
- **Subacute to chronic toxicity:** Toxic and/or corrosive effects may be delayed up to 24 hours.

(Contd. on page 11)

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
GHS

Printing date 10.05.2013

Revision: 10.05.2013

**Trade name: RockSolid Floors Industrial Write-On Paint**

(Contd. of page 10)

· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Toxic

Harmful

Irritant

Danger through skin adsorption.

· **Sensitisation:** Sensitization possible by inhalation and/or dermal contact.

· **Repeated dose toxicity:**

May cause damage to organs through prolonged or repeated exposure .

Repeated exposures may result in skin and/or respiratory sensitivity.

## 12 Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:** The product contains materials that are harmful to the environment.

· **12.2 Persistence and degradability** The product is partially biodegradable. Significant residuals remain.

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· **Ecotoxicological effects:**

· **Remark:**

Due to mechanical actions of the product (e.g. agglutinations) damages may occur.

The product is oxygen-consuming. The declared action may be partly caused by lack of oxygen.

After neutralization a reduction of the harming action may be recognized

· **Additional ecological information:**

· **General notes:**

This statement was deduced from the properties of the single components.

The product contains heavy metals. Avoid transfer into the environment. Specific preliminary treatments are necessary

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

Water Hazard Class (Self-classification) in the concentrate.

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

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

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

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Other adverse effects** No further relevant information available.

## 13 Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

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

(Contd. on page 12)

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
GHS

Printing date 10.05.2013

Revision: 10.05.2013




**Trade name: RockSolid Floors Industrial Write-On Paint**

(Contd. of page 11)

After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## 14 Transport information

· <b>14.1 UN-Number</b> · <b>DOT, ADR, IMDG, IATA</b>	UN2810
· <b>14.2 UN proper shipping name</b> · <b>DOT, IMDG, IATA</b>  · <b>ADR</b>	TOXIC LIQUID, ORGANIC, N.O.S. (HEXAMETHYLENE DIISOCYANATE, DIBUTYL TIN DI(ACETATE))  2810 TOXIC LIQUID, ORGANIC, N.O.S. (HEXAMETHYLENE DIISOCYANATE, DIBUTYL TIN DI(ACETATE))
· <b>14.3 Transport hazard class(es)</b>  · <b>DOT</b>  	6.1 Toxic substances. 6.1
· <b>ADR</b>  	6.1 (T1) Toxic substances. 6.1
· <b>IMDG, IATA</b>  	6.1 Toxic substances. 6.1
· <b>14.4 Packing group</b> · <b>DOT, ADR, IMDG, IATA</b>	III

(Contd. on page 13)

## Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
GHS

Printing date 10.05.2013

Revision: 10.05.2013

Trade name: RockSolid Floors Industrial Write-On Paint

(Contd. of page 12)

· <b>14.5 Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>14.6 Special precautions for user</b>	Warning: Toxic substances.
· <b>Danger code (Kemler):</b>	60
· <b>EMS Number:</b>	F-A,S-A
· <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Transport category</b>	2
· <b>Tunnel restriction code</b>	E
· <b>UN "Model Regulation":</b>	UN2810, TOXIC LIQUID, ORGANIC, N.O.S. (HEXAMETHYLENE DIISOCYANATE, dibutyltin di(acetate)), 6.1, III

### 15 Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

822-06-0 | hexamethylene-di-isocyanate

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65 (California):**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

(Contd. on page 14)

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
GHS

Printing date 10.05.2013

Revision: 10.05.2013

**Trade name: RockSolid Floors Industrial Write-On Paint**

(Contd. of page 13)

· **Carcinogenic Categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

1067-33-0 dibutyltin di(acetate)

A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Canada**

· **Canadian Domestic Substances List (DSL)**

Oxazolidine derivative: Not listed on the DSL, listed on the Non-Domestic Substances List (NDSL).

822-06-0	hexamethylene-di-isocyanate
98-56-6	4-chloro-alpha,alpha,alpha-trifluorotoluene
64742-47-8	Distillates (petroleum), hydrotreated light
108-83-8	2,6-dimethylheptan-4-one
1067-33-0	dibutyltin di(acetate)

· **Canadian Ingredient Disclosure list (limit 0.1%)**

822-06-0 hexamethylene-di-isocyanate

· **Canadian Ingredient Disclosure list (limit 1%)**

108-83-8 2,6-dimethylheptan-4-one

1067-33-0 dibutyltin di(acetate)

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 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.

· **Relevant phrases**

H226 Flammable liquid and vapour.  
 H300 Fatal if swallowed.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H331 Toxic if inhaled.  
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H335 May cause respiratory irritation.  
 H412 Harmful to aquatic life with long lasting effects.

R10 Flammable.

(Contd. on page 15)

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
GHS

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**Trade name: RockSolid Floors Industrial Write-On Paint**

(Contd. of page 14)

R22 Harmful if swallowed.  
R23 Toxic by inhalation.  
R25 Toxic if swallowed.  
R36/37/38 Irritating to eyes, respiratory system and skin.  
R36/38 Irritating to eyes and skin.  
R37 Irritating to respiratory system.  
R41 Risk of serious damage to eyes.  
R42/43 May cause sensitisation by inhalation and skin contact.  
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**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)  
IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
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)  
WHMIS: Workplace Hazardous Materials Information System (Canada)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent

**Sources**

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