

Safety Data Sheet

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

Printing date 01.03.2013




Revision: 01.03.2013

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

- **1.1 Product identifier**
- **Trade name: Fortification Formula Part B**
- **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** Coating
- **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**
The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H411.
The following classifications are applicable only to OSHA (USA) regulations and not the specific CLP regulation: 2,6 / 4 Combustible Liquid.
The following hazard statements are applicable only to OSHA (USA) regulations and not the specific CLP regulation: H227.
H227: Combustible Liquid. (General GHS and USA only)
- 
 GHS08 health hazard
 Carc. 2 H351 Suspected of causing cancer.
 Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
- 
 GHS09 environment
 Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.
- 
 GHS07
 Acute Tox. 4 H302 Harmful if swallowed.
 Skin Irrit. 2 H315 Causes skin irritation.
 Eye Irrit. 2 H319 Causes serious eye irritation.
 STOT SE 3 H335 May cause respiratory irritation.

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

 Xn; Harmful

R22-40-65: Harmful if swallowed. Limited evidence of a carcinogenic effect. Harmful: may cause lung damage if swallowed.

 Xn; Sensitising

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

 Xi; Irritant

R36/38: Irritating to eyes and skin.

R67: Vapours may cause drowsiness and dizziness.

· **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**



GHS07 GHS08 GHS09

· **Signal word** Danger

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

Alkyl Amine (Trade Secret)

Aromatic Hydrocarbons

Carbon black

· **Hazard statements**

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H411.

The following Hazard Statements are applicable only to the general GHS regulations and not the specific CLP regulation: H227.

H227: Combustible Liquid. (General GHS and USA only)

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H351 Suspected of causing cancer.

H335 May cause respiratory irritation.

H304 May be fatal if swallowed and enters airways.

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H411 Toxic to aquatic life with long lasting effects.

- **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.
 P281 Use personal protective equipment as required.
 P264 Wash thoroughly after handling.
 P261 Avoid breathing mist/vapours/spray.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P331 Do NOT induce vomiting.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.

- **Additional information:** N/A

- **Hazard description:**

- **WHMIS-symbols:**

- B3 - Combustible liquid
 D2A - Very toxic material causing other toxic effects



- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



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

- **HMIS Long Term Health Hazard Substances**

70693-06-0	Aromatic Hydrocarbons
1333-86-4	Carbon black

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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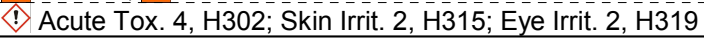
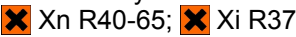
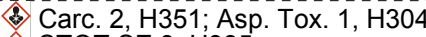
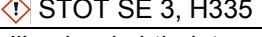
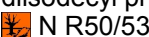
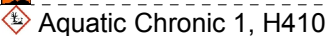
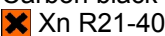
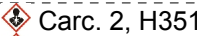

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3 Composition/information on ingredients

- **3.2 Mixtures**

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

- **Dangerous components:**

	Alkyl Amine (Trade Secret)  	25-50%
CAS: 70693-06-0	Aromatic Hydrocarbons  Carc. Cat. 3  	25-50%
CAS: 26761-40-0 EINECS: 247-977-1	diisodecyl phthalate  	< 30%
CAS: 1333-86-4 EINECS: 215-609-9	Carbon black  Carc. Cat. 3  	<10%

- **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:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Take affected persons out into the fresh air.

Do not leave affected persons unattended.

- **After inhalation:**

Supply fresh air; consult doctor in case of complaints.

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:**

Remove contact lenses if worn.

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

- **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

A person vomiting while laying on their back should be turned onto their side.

- **4.2 Most important symptoms and effects, both acute and delayed**

Breathing difficulty

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Coughing

Dizziness

Nausea

Cramp

- **Hazards**

- Danger of pulmonary oedema.

- Danger of impaired breathing.

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

- If swallowed, gastric irrigation with added, activated carbon.

- Contains petroleum distillates.

- If swallowed or in case of vomiting, danger of entering the lungs.

- If necessary oxygen respiration treatment.

- Medical supervision for at least 48 hours.

- Later observation for pneumonia and pulmonary oedema.

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

5 Firefighting measures

- **5.1 Extinguishing media**

- **Suitable extinguishing agents:**

- Foam

- ABC powder

- Gaseous extinguishing agents

- Carbon dioxide

- **For safety reasons unsuitable extinguishing agents:**

- Water with full jet

- Water spray

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

- Formation of toxic gases is possible during heating or in case of fire.

- **5.3 Advice for firefighters**

- **Protective equipment:**

- Wear self-contained respiratory protective device.

- Wear fully protective suit.

- **Additional information**

- Eliminate all ignition sources if safe to do so.

- 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.

- Particular danger of slipping on leaked/spilled product.

- Wear protective equipment. Keep unprotected persons away.

- Keep away from ignition sources.

- Ensure adequate ventilation

- **6.2 Environmental precautions:**

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

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

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

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

Do not flush with water or aqueous cleansing agents

Dispose contaminated material as waste according to item 13.

· **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.

Prevent formation of aerosols.

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

Keep ignition sources away - Do not smoke.

When heated the product forms flammable fumes.

Keep respiratory protective device available.

· **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.

Provide ventilation for receptacles.

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

Store away from foodstuffs.

Store away from oxidizing agents.

Do not store together with acids.

· **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

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:**

26761-40-0 diisodecyl phthalate

EV (Canada)	5 mg/m ³
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1333-86-4 Carbon black

PEL (USA)	3,5 mg/m ³
REL (USA)	3,5* mg/m ³ *0,1 in presence of PAHs; See Pocket Guide Apps.A+C
TLV (USA)	3* mg/m ³ *inhalable fraction
EL (Canada)	3 mg/m ³ IARC 2B
EV (Canada)	3,5 mg/m ³

- **DNELs** No further relevant information available.
- **PNECs** No further relevant information available.
- **Additional information:** The lists valid during the making were used as basis.

- **8.2 Exposure controls**

- **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.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.

- **Respiratory protection:**

Use suitable respiratory protective device when aerosol or mist is formed.
Suitable respiratory protective device recommended.
For spills, respiratory protection may be advisable.

- **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:**



Safety glasses

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- **Body protection:** Solvent resistant protective clothing
- **Limitation and supervision of exposure into the environment**
No further relevant information available.
- **Risk management measures**
See Section 7 for additional information.
No further relevant information available.

9 Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Liquid
Colour:	Black
Odour:	Amine-like
Odour threshold:	Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	482 °F / 250 °C

· Flash point: 145 °F / 63 °C

· 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:	Not determined.
Upper:	Not determined.

· 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.

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Kinematic:	Not determined.
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Solvent content:	
Organic solvents:	Not determined.

Solids content:	Not determined.
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9.2 Other information	No further relevant information available.
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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**

Reacts with strong oxidizing agents.

Reacts with strong acids.

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.

Reacts with peroxides and other radical forming substances.

Toxic fumes may be released if heated above the decomposition point.

- **10.4 Conditions to avoid**

Keep ignition sources away - Do not smoke.

Store away from oxidizing agents.

- **10.5 Incompatible materials:** No further relevant information available.

- **10.6 Hazardous decomposition products:**

Carbon monoxide and carbon dioxide

Hydrocarbons

Nitrogen oxides

11 Toxicological information

- **11.1 Information on toxicological effects**

- **Acute toxicity:**

LD/LC50 values relevant for classification:	
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1333-86-4 Carbon black

Oral	LD50	10000 mg/kg (rat)
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- **Primary irritant effect:**

- **on the skin:** Slight irritant effect on skin and mucous membranes.

- **on the eye:** Slight irritant effect on eyes.

- **Sensitization:** Sensitizing effect by skin contact is possible by prolonged exposure.

- **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:

Harmful

Irritant

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Danger through skin adsorption.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

Toxic and/or corrosive effects may be delayed up to 12 hours.

- **Repeated dose toxicity:** May cause damage to organs through prolonged or repeated exposure .

12 Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:** No further relevant information available.

- **12.2 Persistence and degradability** No further relevant information available.

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

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

- **Additional ecological information:**

- **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- **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.

- **Uncleaned packaging:**

- **Recommendation:** Disposal must be made according to official regulations.

- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

- **14.1 UN-Number**

- **DOT, ADR, IMDG, IATA**

UN2810

- **ADN**

N/A

- **14.2 UN proper shipping name**

- **DOT, IMDG, IATA**

TOXIC LIQUID, ORGANIC, N.O.S. (Alkyl Amine
(Trade Secret), Aromatic Hydrocarbons)

- **ADR**

2810 TOXIC LIQUID, ORGANIC, N.O.S. (Alkyl Amine
(Trade Secret), Aromatic Hydrocarbons)

- **ADN**

N/A

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· 14.3 Transport hazard class(es)	
· DOT, IMDG, IATA	
· Class	6.1 Toxic substances.
· Label	6.1

· ADR	
· Class	6.1 (T1) Toxic substances.
· Label	6.1
· ADN/R Class:	N/A
· 14.4 Packing group	
· DOT, ADR, IMDG, IATA	III
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	
· Danger code (Kemler):	Warning: Toxic substances. 60
· EMS Number:	F-A,S-A
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	
	Not applicable.
· Transport/Additional information:	

· ADR	
· Limited quantities (LQ)	5L
· Transport category	2
· Tunnel restriction code	E
· UN "Model Regulation":	UN2810, TOXIC LIQUID, ORGANIC, N.O.S. (Alkyl Amine (Trade Secret), Aromatic Hydrocarbons), 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):**

None of the ingredients is listed.

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

All ingredients are listed.

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· **Proposition 65 (California):**

· **Chemicals known to cause cancer:**

1333-86-4	Carbon black
91-20-3	naphthalene
100-41-4	ethylbenzene

· **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:**

26761-40-0	diisodecyl phthalate
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· **Carcinogenic Categories**

· **EPA (Environmental Protection Agency)**

91-20-3	naphthalene	CBD
91-57-6	2-methylnaphthalene	I

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

1333-86-4	Carbon black	2B
91-20-3	naphthalene	2B

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

1333-86-4	Carbon black	A4
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· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

1333-86-4	Carbon black
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· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Canada**

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

All ingredients are listed.

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

91-20-3	naphthalene
95-63-6	1,2,4-trimethylbenzene
108-67-8	mesitylene

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

1333-86-4	Carbon black
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· **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.

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Relevant phrases

- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- H410 Very toxic to aquatic life with long lasting effects.
- R21 Harmful in contact with skin.
- R22 Harmful if swallowed.
- R36/38 Irritating to eyes and skin.
- R37 Irritating to respiratory system.
- R40 Limited evidence of a carcinogenic effect.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R65 Harmful: may cause lung damage if swallowed.

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)
- HMS: Hazardous Materials Identification System (USA)
- WHMIS: Workplace Hazardous Materials Information System (Canada)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent

Sources

- SDS Prepared by:
ChemTel Inc.
1305 North Florida Avenue
Tampa, Florida USA 33602-2902
Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573
Website: www.chemtelinc.com