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# **Material Safety Data Sheet**

**RBS-35 Concentrate** 

## 1. Product and company identification

Product name : RBS-35 Concentrate

Supplier : Thermo Fisher Scientific
Pierce Biotechnology
P.O. Box 117

Rockford, IL 61105 United States 815.968.0747 or 800.874.3723 Manufacturer

: Thermo Fisher Scientific Pierce Biotechnology P.O. Box 117 Rockford, IL 61105 United States 815.968.0747 or 800.874.3723

Code : 0027852 0027950 0027952 0027953B 0027954 1801920

 MSDS #
 : 0765

 Validation date
 : 3/9/2011.

 Print date
 : 3/9/2011.

 Responsible name
 : MSDS Specialist

In case of emergency : MSDS Specials

CHEMTREC:

: CHEMTREC: 800.424.9300 OUTSIDE US: 202.483.7616 Material uses : Refer

Refer to the instruction booklet for proper and intended use. Otherwise, contact supplier for specific

1/1:

applications.

Product type : Liquid.

## 2. Hazards identification

#### **Emergency overview**

Physical state : Liquid. [Viscous.]
Color : White. Cloudy.
Odor : Odorless.
Signal word : DANGER!

Hazard statements : CAUSES RESPIRATORY TRACT, EYE AND SKIN BURNS. MAY BE HARMFUL IF

SWALLOWED. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN

DAMAGE.

Precautionary measures : Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Do not

get in eyes. Do not get on skin. Do not eat, drink or smoke when using this product.

Keep container tightly closed. Wash thoroughly after handling.

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Routes of entry : Dermal contact. Eye contact. Inhalation. Ingestion.

### Potential acute health effects

3/9/2011.

Inhalation : Corrosive to the respiratory system.

Ingestion : Harmful if swallowed. May cause burns to mouth, throat and stomach.

Skin : Corrosive to the skin. Causes burns.

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### 2. Hazards identification

Eyes : Corrosive to eyes. Causes burns.

#### Potential chronic health effects

Chronic effects : Contains material that can cause target organ damage.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Target organs : Contains material which causes damage to the following organs: mucous membranes,

eve. lens or cornea

Contains material which may cause damage to the following organs: lungs,

gastrointestinal tract, upper respiratory tract, skin.

### Over-exposure signs/symptoms

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Ingestion : Adverse symptoms may include the following:

stomach pains

Skin : Adverse symptoms may include the following:

pain or irritation redness

blistering may occur

Eves : Adverse symptoms may include the following:

pain watering redness

Medical conditions

: Pre-existing disorders involving any target organs mentioned in this MSDS as being at

2/1

aggravated by overrisk may be aggravated by over-exposure to this product.

exposure

See toxicological information (Section 11)

# 3. Composition/information on ingredients

#### **United States**

Name	CAS number	%
Sodium Carbonate	497-19-8	3 - 5
Sodium hypochlorite solution CI active	7681-52-9	1 - 3
Glycols, polyethylene, mono(p-nonylphenyl) ether	26027-38-3	1 - 3

### Canada

Name	CAS number	%
Sodium Carbonate Sodium hypochlorite solution Cl active	7320-34-5 497-19-8 7681-52-9 26027-38-3	3 - 5 3 - 5 1 - 3

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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Inhalation

## 4. First aid measures

Eye contact Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower evelids. Get medical

attention immediately.

Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean

shoes thoroughly before reuse. Get medical attention immediately.

: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention

immediately.

: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical Ingestion

personnel. Never give anything by mouth to an unconscious person. Get medical

attention immediately.

: No action shall be taken involving any personal risk or without suitable training. If it is Protection of first-aiders suspected that fumes are still present, the rescuer should wear an appropriate mask or

self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

Notes to physician : No specific treatment. Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

## 5. Fire-fighting measures

Flammability of the product : In a fire or if heated, a pressure increase will occur and the container may burst.

Extinguishing media

Suitable : Use an extinguishing agent suitable for the surrounding fire.

Not suitable : None known

Special exposure hazards : Promptly isolate the scene by removing all persons from the vicinity of the incident if

there is a fire. No action shall be taken involving any personal risk or without suitable

Hazardous thermal decomposition products : Decomposition products may include the following materials:

carbon dioxide carbon monoxide phosphorus oxides halogenated compounds

metal oxide/oxides

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### 6. Accidental release measures

Personal precautions : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist.

Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains Environmental precautions

and sewers. Inform the relevant authorities if the product has caused environmental

pollution (sewers, waterways, soil or air).

Methods for cleaning up

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### 6. Accidental release measures

#### Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor

#### Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

## 7. Handling and storage

#### Handling

: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container.

### Storage

: Store between the following temperatures: 20 to 25°C (68 to 77°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8. Exposure controls/personal protection

#### **United States**

Ingredient	Exposure limits
Sodium hypochlorite solution Cl active	AIHA WEEL (United States, 5/2010). STEL: 2 mg/m³ 15 minute(s).

### Canada

3/1

Occupational exposure limits		TWA (8 hours)		STEL (15 mins)		Ceiling					
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	Notations
Sodium hypochlorite solution CI active	US AIHA 5/2010	-	-	-	-	2	-	-	-		

#### Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

**Engineering measures** 

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits

3/9/2011. 4/1

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## 8. Exposure controls/personal protection

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protection

Respiratory

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is

neces

Eyes

 Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

austs

Skin

 Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling

this product.

**Environmental exposure** 

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. Physical and chemical properties

Physical state

: Liquid. [Viscous.]

Flash point : [Product does not sustain combustion.]

Color : White. Cloudy.
Odor : Odorless.

pH : 13 [Conc. (% w/w): 100%]

Boiling/condensation point : 95°C (203°F)

conting/condensation point : 55 0 (20

Relative density : 1.09

**Vapor density** : 1.093 [Air = 1] **Volatility** : 87.8% (v/v)

Solubility : Easily soluble in the following materials: cold water and hot water.

## 10. Stability and reactivity

Chemical stability

: The product is stable.

Conditions to avoid

: No specific data.

Incompatible materials

: Reactive or incompatible with the following materials:

acids

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products should

. . . .

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

3/9/2011. 5/1.

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#### RBS-35 Concentrate

## 11. Toxicological information

#### United State

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Sodium Carbonate	LD50 Oral	Rat	4090 mg/kg	-

Conclusion/Summary

: Not available.

Chronic toxicity

Conclusion/Summary : Not available.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Sodium Carbonate	Eyes - Mild irritant	Rabbit	-	-	-
	Eyes - Moderate irritant	Rabbit	-	-	-
	Eyes - Severe irritant	Rabbit	-	-	-
	Skin - Mild irritant	Rabbit	-	-	-
Glycols, polyethylene, mono(p-nonylphenyl) ether	Eyes - Moderate irritant	Rabbit	-	-	-
	Eyes - Severe irritant	Rabbit	-	-	-
	Skin - Moderate irritant	Rabbit	-	-	-
	Skin - Severe irritant	Rabbit	-	-	-
Sodium hypochlorite solution CI active	Eyes - Mild irritant	Rabbit	-	-	-
	Eyes - Moderate irritant	Rabbit	-	-	-

Conclusion/Summary

Sensitizer

Conclusion/Summary

: Not available.: Not available.

Carcinogenicity

Conclusion/Summary : Not available

#### Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Sodium Carbonate Sodium hypochlorite solution	-	- 3	-	None.	-	-
Cl active		3				

### **Mutagenicity**

Product/ingredient name	Test	Experiment	Result
Glycols, polyethylene, mono(p-nonylphenyl) ether	Morphological transformation	Subject: Mammalian-Animal Cell: Somatic	Equivocal

Conclusion/Summary : Not available

**Teratogenicity** 

3/9/2011.

Conclusion/Summary : Not available.

### Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure

6/1

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## 11. Toxicological information

Sodium Carbonate	-	Positive	-	Mouse - Female	Unreported: 84800	-
Glycols, polyethylene, mono(p-nonylphenyl) ether	-	Positive	-	Rat - Female	ng/kg Implant: 2500 ug/kg	-
	-	Positive	-	Rat - Female	Implant: 5	-
	Positive	-	-	Rat - Female	Implant: 50 mg/kg	-
	Positive	-	-	Rabbit - Female	Implant: 1250 ug/kg	-
	-	Positive	-	Rabbit - Female	Implant: 1 mg/kg	-

Conclusion/Summary : Not available.

## <u>Canada</u>

## **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
	LD50 Oral LD50 Dermal		4090 mg/kg >4640 mg/kg	-

Conclusion/Summary : Not available.

**Chronic toxicity** 

Conclusion/Summary : Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Sodium Carbonate	Eyes - Mild irritant	Rabbit	-	-	-
	Eyes - Moderate irritant	Rabbit	-	-	-
	Eyes - Severe irritant	Rabbit	-	-	-
	Skin - Mild irritant	Rabbit	-	-	-
Glycols, polyethylene, mono(p-nonylphenyl) ether	Eyes - Moderate irritant	Rabbit	-	-	-
	Eyes - Severe irritant	Rabbit	-	-	-
	Skin - Moderate irritant	Rabbit	-	-	-
	Skin - Severe irritant	Rabbit	-	-	-
Sodium hypochlorite solution CI active	Eyes - Mild irritant	Rabbit	-	-	-
	Eyes - Moderate irritant	Rabbit	-	-	-

Conclusion/Summary

: Not available.

<u>Sensitizer</u>

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA

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### RBS-35 Concentrate

# 11. Toxicological information

Sodium Carbonate	-	-	-	None.	-	l-
Sodium hypochlorite solution	-	3	-	-	-	-
CI active						

### <u>Mutagenicity</u>

Product/ingredient name	Test	Experiment	Result
	Morphological transformation	Subject: Mammalian-Animal Cell: Somatic	Equivocal

Conclusion/Summary

: Not available.

**Teratogenicity** 

Conclusion/Summary

: Not available.

### Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
Sodium Carbonate	-	Positive	-	Mouse - Female	Unreported: 84800 ng/kg	-
Glycols, polyethylene, mono(p-nonylphenyl) ether	-	Positive	-	Rat - Female	Implant: 2500 ug/kg	-
	-	Positive	-	Rat - Female	Implant: 5	-
	Positive	-	-	Rat - Female	Implant: 50 mg/kg	-
	Positive	-	-	Rabbit - Female	Implant: 1250 ug/kg	-
	-	Positive	-	Rabbit - Female	Implant: 1 mg/kg	-

Conclusion/Summary : Not available.

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## 12. Ecological information

**Ecotoxicity United States**  : Inherently biodegradable

### Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
Sodium Carbonate	Acute EC50 199.82 mg/L Fresh water	Daphnia - Ceriodaphnia dubia - Neonate - <24 hours	48 hours
	Acute LC50 300000 ug/L Fresh water	Fish - Lepomis macrochirus - 3.88 cm - 0.96 g	96 hours
Glycols, polyethylene, mono(p-nonylphenyl) ether	Acute LC50 18200 to 22550 ug/L Fresh water	Daphnia - Daphnia magna - 3 days	48 hours
Sodium hypochlorite solution CI active	Acute EC50 46000 ug/L Marine water	Algae - Gracilaria tenuistipitata	4 days
	Acute LC50 56400 to 77400 ug/L Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 32 to 36 ug/L Fresh water	Daphnia - Daphnia magna - <24 hours	48 hours
	Acute LC50 32 to 38 ug/L Marine water	Fish - Oncorhynchus kisutch -	96 hours

3/9/2011.

7/1:

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8/1.

## 12. Ecological information

Juvenile (Fledgling, Hatchling, Weanling)

Conclusion/Summary

: Not available.

Persistence/degradability

Conclusion/Summary : COD: 36100 mg/L

BOD5: <5 mg/L

#### Canada

#### **Aquatic ecotoxicity**

Product/ingredient name	Result	Species	Exposure
Sodium Carbonate	Acute EC50 199.82 mg/L Fresh water	Daphnia - Ceriodaphnia dubia - Neonate - <24 hours	48 hours
	Acute LC50 300000 ug/L Fresh water	Fish - Lepomis macrochirus - 3.88 cm - 0.96 g	96 hours
Glycols, polyethylene, mono(p-nonylphenyl) ether	Acute LC50 18200 to 22550 ug/L Fresh water	Daphnia - Daphnia magna - 3 days	48 hours
Sodium hypochlorite solution CI active	Acute EC50 46000 ug/L Marine water	Algae - Gracilaria tenuistipitata	4 days
	Acute LC50 56400 to 77400 ug/L Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 32 to 36 ug/L Fresh water	Daphnia - Daphnia magna - <24 hours	48 hours
	Acute LC50 32 to 38 ug/L Marine water	Fish - Oncorhynchus kisutch - Juvenile (Fledgling, Hatchling, Weanling)	96 hours

Conclusion/Summary

: Not available

Persistence/degradability

Conclusion/Summary : COD: 36100 mg/L BOD5: <5 mg/L

Other adverse effects : No known significant effects or critical hazards.

### 13. Disposal considerations

### Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

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9/1

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#### **RBS-35 Concentrate**

## 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*
DOT Classification	UN3267	Corrosive liquids, basic, organic, n.o.s. (Sodium Hydroxide, Sodium hypochlorite solution CI active)	8	III
IATA-DGR Class	UN3267	Corrosive liquids, basic, organic, n.o.s. (Sodium Hydroxide, Sodium hypochlorite solution CI active)	8	III

PG\* : Packing group

## 15. Regulatory information

**United States** 

**HCS Classification** : Corrosive material

Target organ effects

: TSCA 8(a) PAIR: Glycols, polyethylene, mono(p-nonylphenyl) ether U.S. Federal regulations

TSCA 8(a) IUR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted. SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: Sodium hypochlorite solution CI active;

Sodium Carbonate

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Sodium hypochlorite solution Cl active: Immediate (acute) health hazard; Sodium Carbonate: Immediate (acute) health hazard, Delayed (chronic) health hazard

Clean Water Act (CWA) 311: Sodium Hydroxide; Sodium hypochlorite solution Cl active:

10/1

sodium metaphosphate; trisodium orthophosphate

Clean Air Act Section 112(b) Hazardous Air

Pollutants (HAPs)

Clean Air Act Section 602 : Not listed

Class I Substances

Clean Air Act Section 602 : Not listed

Class II Substances

**DEA List I Chemicals** 

(Precursor Chemicals)

**DEA List II Chemicals** (Essential Chemicals) : Not listed : Not listed

: Not listed

State regulations

Massachusetts : The following components are listed: SODIUM HYPOCHLORITE

**New York** : The following components are listed: Sodium hypochlorite

**New Jersey** : The following components are listed: SODIUM HYPOCHLORITE: HYPOCHLOROUS

ACID. SODIUM SALT

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## 15. Regulatory information

Pennsylvania
United States inventory

: The following components are listed: HYPOCHLOROUS ACID, SODIUM SALT

United States inventory : All components are listed or exempted. (TSCA 8b)

Canada

WHMIS (Canada) : Class E: Corrosive material

**Canadian lists** 

Canadian NPRI : The following components are listed: Phosphorus (total); Nonylphenol and its ethoxylates

CEPA Toxic substances : The following components are listed: Nonylphenol and its ethoxylates

**Canada inventory**: All components are listed or exempted.

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

International regulations

International lists : Australia inventory (AICS): All components are listed or exempted.

China inventory (IECSC): All components are listed or exempted.

Japan inventory: Not determined.

Korea inventory: All components are listed or exempted.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Philippines inventory (PICCS): All components are listed or exempted.

## 16. Other information

Label requirements

: CAUSES RESPIRATORY TRACT, EYE AND SKIN BURNS. MAY BE HARMFUL IF SWALLOWED. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN

11/1

DAMAGE.

Hazardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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 Date of previous issue
 : 3/8/2011.

 Version
 : 1.01

Prepared by : MSDS Specialist

 $\overline{\hspace{-1em}/\hspace{-1.5em}}$  Indicates information that has changed from previously issued version.

Notice to reader

3/9/2011.

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RBS-35 Concentrate

### 16. Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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