

Myers Order No. 11098

# MSDS Material Safety Data Sheet

THE PENRAY COMPANIES, INC.

## PENRAY 2 STEP COOLING SYSTEM RE-CHARGE KIT 1102

MSDS Number: 1102

Revision Date: 03/11/2009

Page 1 of 3

1

### PRODUCT AND COMPANY IDENTIFICATION

**Manufacturer**

THE PENRAY COMPANIES INC.  
440 Denniston Ct

Wheeling, IL 60090

**Contact:** EH&S Manager  
**Telephone Number:** (847) 459-5000  
**FAX Number:** (847)459-5043  
**E-Mail:**  
**Web** www.penray.com

**Product Name:** PENRAY 2 STEP COOLING SYSTEM RE-CHARGE KIT 1102  
**Revision Date:** 03/11/2009  
**MSDS Number:** 1102  
**Common Name:** 2 STEP OF COOLING SYSTEM CLEANER AND COOLING SYSTEM TREATMENT

2

### HAZARDS IDENTIFICATION

**Route of Entry:**  
**Target Organs:**  
**Inhalation:**  
**Skin Contact:**  
**Eye Contact:**  
**Ingestion:**

3

### COMPOSITION/INFORMATION ON INGREDIENTS

THIS 2 STEP COOLING SYSTEM RE-CHARGE KIT CONSISTS OF TWO PRODUCTS, PENRAY COOL PREP COOLING SYSTEM CLEANER 1212 AND PENRAY COOL-TEC 2 COOLING SYSTEM TREATMENT 1112.

PLEASE REFER TO THE INDIVIDUAL MSDS'S FOR DETAILED INFORMATION

4

### FIRST AID MEASURES

**Inhalation:**  
**Skin Contact:**  
**Eye Contact:**  
**Ingestion:**

# **MSDS** *Material Safety Data Sheet* **THE PENRAY COMPANIES, INC.**

## **PENRAY 2 STEP COOLING SYSTEM RE-CHARGE KIT 1102**

MSDS Number: 1102

Revision Date: 03/11/2009

Page 2 of 3

### **5 FIRE FIGHTING MEASURES**

### **6 ACCIDENTAL RELEASE MEASURES**

### **7 HANDLING AND STORAGE**

Handling Precautions:

Storage Requirements:

### **8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Engineering Controls:

Protective Equipment:

### **9 PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:

Physical State:

Odor:

pH:

Vapor Pressure:

Vapor Density:

Boiling Point:

Freezing/Melting Pt.:

Solubility:

Spec Grav./Density:

### **10 STABILITY AND REACTIVITY**

Stability:

Conditions to avoid:

Materials to avoid (incompatibility):

Hazardous Decomposition products:

Hazardous Polymerization:

### **11 TOXICOLOGICAL INFORMATION**

# **MSDS** *Material Safety Data Sheet* THE PENRAY COMPANIES, INC.

PENRAY 2 STEP COOLING SYSTEM RE-CHARGE KIT 1102

MSDS Number: 1102

Revision Date: 03/11/2009

Page 3 of 3

12 ECOLOGICAL INFORMATION

13 DISPOSAL CONSIDERATIONS

14 TRANSPORT INFORMATION

15 REGULATORY INFORMATION

16 OTHER INFORMATION

END OF MSDS DOCUMENT

# MSDS *Material Safety Data Sheet*

THE PENRAY COMPANIES, INC.

PENRAY COOL TECH-2 1112

MSDS Number: 1112

Revision Date: 03/11/2009

Page 1 of 4

1

## PRODUCT AND COMPANY IDENTIFICATION

### Manufacturer

THE PENRAY COMPANIES INC.  
440 Denniston Ct

Wheeling, IL 60090

**Contact:** EH&S Manager  
**Telephone Number:** (847) 459-5000  
**FAX Number:** (847)459-5043  
**E-Mail:**  
**Web**

**Product Name:** PENRAY COOL TECH-2 1112  
**Revision Date:** 03/11/2009  
**MSDS Number:** 1112  
**Common Name:** AN AQUEOUS SOLUTION OF NITRITES, NITRATES AND SODIUM TETRABORATE

EMERGENCY PHONE NUMBER (800) 752-7869

NFPA 704M RATING :

HEALTH:1 FIRE:0 REACTIVITY:0 SPECIAL:

O=INSIGNIFICANT 1=SLIGHT 2=MODERATE 3=HIGH 4=EXTREME

2

## HAZARDS IDENTIFICATION

**Route of Entry:** Skin absorption ,inhalation, eye contact, ingestion  
**Target Organs:** None Known  
**Inhalation:** No hazard in industrial use.  
**Skin Contact:** Prolonged contact with skin can cause irritation.  
**Eye Contact:** Will cause irritation upon contact.  
**Ingestion:** Irritating to mouth, throat, and stomach. May cause discomfort, nausea, vomiting and diarrhea.

CARCINOGENICITY: Product is not considered a carcinogen by OSHA, NTP or IARC.

MEDICAL CONDITIONS: Pre-existing eye or skin conditions may be aggravated by over-exposure to this product.

3

## COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	PERCENT WEIGHT
SODIUM NITRITE	7632-00-0	1-3%
SODIUM METASILICATE	6834-92-0	0.5-2.5%
SODIUM TETRABORATE	1330-43-4	1-2%
SODIUM NITRATE	7631-99-4	0.1-0.5%
SODIUM HYDROXIDE	1310-73-2	0.5-2%
SODIUM TOLYTRIAZOLE	64665-57-2	0.5-2.0%
WATER	6771-18-5	>90%

# MSDS **Material Safety Data Sheet**

THE PENRAY COMPANIES, INC.

PENRAY COOL TECH-2 1112

MSDS Number: 1112

Revision Date: 03/11/2009

Page 2 of 4

4

## FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. Seek medical attention. Inhalation hazard unlikely due to low volatility of product.

**Skin Contact:** Wash area with soap and water. seek medical attention if irritation persists

**Eye Contact:** Immediately flush eyes with plenty of water for 15 minutes. Seek medical attention.

**Ingestion:** Induce vomiting. Only give CONSCIOUS victim two glasses of water and seek medical attention. NEVER give UNCONSCIOUS anything by mouth.

5

## FIRE FIGHTING MEASURES

**Flash Point:** N/A

Product will not support combustion

6

## ACCIDENTAL RELEASE MEASURES

**SPILL/LEAK PROCEDURES:** Notify safety personnel evacuate all unnecessary personnel and provide adequate ventilation. If feasible, and without risk, clean-up personnel should stop leak. All clean up personnel should wear proper personal protective equipment.

**SMALL SPILLS:** Clean with inert absorbent and place in recovery drums for disposal.

**LARGE SPILLS:** Dike to prevent further migration of material. DO NOT release into waterways or sewers. Follow applicable federal and state regulations.

7

## HANDLING AND STORAGE

**Handling Precautions:** Wash thoroughly after handling. Do not get into eyes, on skin or on clothing.. Do not smoke while using this product. Do not use near excessive heat, sparks, or open flame.

**Storage Requirements:** Store in clean, dry locations away from excessive heat.

8

## EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Eye wash station and safety shower.  
Strong general ventilation or local exhaust.

**Protective Equipment:** EYE: Chemical splash goggles with indirect or no ventilation.  
SKIN :Chemical resistant gloves such as nitrile.  
RESPIRATORY: Organic vapor air purifying respirator if vapors are a nuisance or if the concentrations are above PEL or TLV.  
Never eat drink or smoke in the work area.

**Exposure Guidelines/Other:** Never eat, drink or smoke in work area

# MSDS *Material Safety Data Sheet*

THE PENRAY COMPANIES, INC.

PENRAY COOL TECH-2 1112

MSDS Number: 1112

Revision Date: 03/11/2009

Page 3 of 4

9

## PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear liquid	<b>Boiling Point:</b>	BT 212 - 215 F
<b>Physical State:</b>	Liquid	<b>Freezing/Melting Pt.:</b>	
<b>Odor:</b>	None	<b>Solubility:</b>	Completely
<b>pH:</b>	12.0	<b>Spec Grav./Density:</b>	1.3
<b>Vapor Pressure:</b>			
<b>Vapor Density:</b>	>1		

10

## STABILITY AND REACTIVITY

<b>Stability:</b>	Material is stable.
<b>Conditions to avoid:</b>	Excessive heat and open flame.
<b>Materials to avoid (incompatibility):</b>	Strong oxidizing agents and reducing agents
<b>Hazardous Decomposition products:</b>	Carbon Monoxide and Carbon Dioxide
<b>Hazardous Polymerization:</b>	Cannot occur.

11

## TOXICOLOGICAL INFORMATION

LD50

Sodium Nitrite :	120 mg/kg	(oral)
Sodium Nitrate :	4300mg/kg	(oral)
Sodium Tetraborate:	3200 mg/kg	(oral)

12

## ECOLOGICAL INFORMATION

No data

13

## DISPOSAL CONSIDERATIONS

As a waste, this product in its raw form DOES NOT MEET the criteria of a hazardous waste as defined by RCRA (40CFR361).

Dispose of in accordance with all applicable state, federal and local regulations.

# MSDS Material Safety Data Sheet

THE PENRAY COMPANIES, INC.

PENRAY COOL TECH-2 1112

MSDS Number: 1112

Revision Date: 03/11/2009

Page 4 of 4

## 14 TRANSPORT INFORMATION

DOMESTIC:  
Not Regulated

EXPORT:  
Not Regulated

## 15 REGULATORY INFORMATION

### U.S. FEDERAL REGULATIONS

OSHA: Considered to be a hazardous material as defined by 29CFR1910.1200

### EPA SARA TITLE III

Section 311-312 (40CFR370): If stored in excess of the threshold quantities, this product should be reported as a(n):  
IMMEDIATE (acute) HEALTH HAZARD

Section 313(40CFR372) This product does not contains ingredients which are subject to the reporting requirements of SARA 313:

## 16 OTHER INFORMATION

CALIFORNIA PROPOSITION 65: This product does not contain ingredients which are on the current Proposition 65 list.

NEW JERSEY RIGHT-TO-KNOW: This product contains the following ingredients which are non-hazardous, but are among the top five ingredients in this product:

-----CAS#-----

7732-18-5: Water

7631-99-4: Sodium Nitrite

7631-00-0: Sodium Nitrate

1330-43-4: sodium Tetraborate

### Notes:

NG= NOT GIVEN

BT= BETWEEN

<= LESS THAN

>= GREATER THAN

USERS RESPONSIBILITY; This MSDS provides environmental, health and safety information. This product is to be used in applications consistent with our product literature and container label. Individuals handling this product should be informed to the recommended safety precautions and have access to this MSDS. Please contact your local sales representative of our EH&S Department for further information.

END OF MSDS

END OF MSDS DOCUMENT

# MSDS Material Safety Data Sheet

The Penray Companies Inc



## PENRAY COOL PREP 1212

MSDS Number: 1212

Revision Date: 03/11/2012

Page 1 of 5

1

### PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

THE PENRAY COMPANIES INC.  
440 Denniston Ct  
Wheeling, IL 60090

**Contact:** EH&S Manager  
**Phone:** (847) 459-5000  
**Fax:** (847)459-5043

**Product Name:** PENRAY COOL PREP 1212  
**Revision Date:** 03/11/2012  
**MSDS Number:** 1212  
**Common Name:** AN AQUEOUS CLEANING SOLUTION OF NITRITES, NITRATES & SODIUM TETRABORAT

EMERGENCY PHONE NUMBER (800) 752-7869

NFPA 704M RATING :

HEALTH:1 FIRE:0 REACTIVITY: 0 SPECIAL:

O=INSIGNIFICANT 1=SLIGHT 2=MODERATE 3=HIGH 4=EXTREME

2

### HAZARDS IDENTIFICATION

**Route of Entry:** Skin absorption ,inhalation, eye contact, ingestion

**Target Organs:** None Known

**Inhalation:** No hazard in industrial use.

**Skin Contact:** Prolonged contact with skin can cause irritation.

**Eye Contact:** Will cause irritation upon contact.

**Ingestion:** Irritating to mouth, throat, and stomach. May cause discomfort, nausea, vomiting and diarrhea.

CARCINOGENICITY: Product is not considered a carcinogen by OSHA, NTP or IARC.

MEDICAL CONDITIONS: Pre-existing eye or skin conditions may be aggravated by over-exposure to this product.

# MSDS Material Safety Data Sheet

The Penray Companies Inc



## PENRAY COOL PREP 1212

MSDS Number: 1212

Revision Date: 03/11/2012

Page 2 of 5

3

### COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients:

CHEMICAL NAME	CAS NUMBER	PERCENT WEIGHT
SODIUM NITRITE	7632-00-0	1-5%
SODIUM TETRABORATE	1330-43-4	1-5%
SODIUM HYDROXIDE	1310-73-2	1-5%
SODIUM TOLYTRIAZOLE	64665-57-2	1-5%

4

### FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. Seek medical attention. Inhalation hazard unlikely due to low volatility of product.

**Skin Contact:** Wash area with soap and water. seek medical attention if irritation persists

**Eye Contact:** Immediately flush eyes with plenty of water for 15 minutes. Seek medical attention.

**Ingestion:** Induce vomiting. Only give CONSCIOUS victim two glasses of water and seek medical attention. NEVER give UNCONSCIOUS anything by mouth.

5

### FIRE FIGHTING MEASURES

**Flash Point:** DOES NOT FLASH

Product will not support combustion

6

### ACCIDENTAL RELEASE MEASURES

**SPILL/LEAK PROCEDURES:** Notify safety personnel evacuate all unnecessary personnel and provide adequate ventilation. If feasible, and without risk, clean-up personnel should stop leak. All clean up personnel should wear proper personal protective equipment.

**SMALL SPILLS:** Clean with inert absorbent and place in recovery drums for disposal.

**LARGE SPILLS:** Dike to prevent further migration of material. DO NOT release into waterways or sewers. Follow applicable federal and state regulations.

7

### HANDLING AND STORAGE

**Handling Precautions:** Wash thoroughly after handling. Do not get into eyes, on skin or on clothing.. Do not smoke while using this product. Do not use near excessive heat, sparks, or open flame.

**Storage Requirements:** Store in clean, dry locations away from excessive heat.

# MSDS Material Safety Data Sheet

The Penray Companies Inc



## PENRAY COOL PREP 1212

MSDS Number: 1212

Revision Date: 03/11/2012

Page 3 of 5

8

### EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Eye wash station and safety shower.  
Strong general ventilation or local exhaust.

**Personal Protective Equip:** EYE: Chemical splash goggles with indirect or no ventilation.  
SKIN :Chemical resistant gloves such as nitrile.  
RESPIRATORY: Organic vapor air purifying respirator if vapors are a nuisance or if the concentrations are above PEL or TLV.  
Never eat drink or smoke in the work area.

Never eat, drink or smoke in work area

9

### PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Purple liquid	<b>Odor:</b>	None
<b>Physical State:</b>	Liquid	<b>Solubility:</b>	Completely
<b>Spec Grav./Density:</b>	1.3	<b>Vapor Density:</b>	>1
<b>Boiling Point:</b>	BT 212 - 215 F		
<b>pH:</b>	12.0		

10

### STABILITY AND REACTIVITY

**Stability:** Material is stable.

**Conditions to Avoid:** Excessive heat and open flame.

**Materials to Avoid:** Strong oxidizing agents and reducing agents

**Hazardous Decomposition:** Carbon Monoxide and Carbon Dioxide

**Hazardous Polymerization:** Cannot occur.

11

### TOXICOLOGICAL INFORMATION

LD50  
Sodium Nitrite : 120 mg/kg (oral)  
Sodium Nitrate : 4300mg/kg (oral)  
Sodium Tetraborate: 3200 mg/kg (oral)

# MSDS Material Safety Data Sheet

The Penray Companies Inc



## PENRAY COOL PREP 1212

MSDS Number: 1212

Revision Date: 03/11/2012

Page 4 of 5

### 12 ECOLOGICAL INFORMATION

No data

### 13 DISPOSAL CONSIDERATIONS

As a waste, this product in its raw form DOES NOT MEET the criteria of a hazardous waste as defined by RCRA (40CFR361).

Dispose of in accordance with all applicable state, federal and local regulations.

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DOMESTIC:  
Not Regulated

EXPORT:  
Not Regulated

### 15 REGULATORY INFORMATION

#### U.S. FEDERAL REGULATIONS

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Section 311-312 (40CFR370): If stored in excess of the threshold quantities, this product should be reported as a(n):

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Section 313(40CFR372) This product does not contains ingredients which are subject to the reporting requirements of SARA 313:

# MSDS Material Safety Data Sheet

The Penray Companies Inc



## PENRAY COOL PREP 1212

MSDS Number: 1212

Revision Date: 03/11/2012

Page 5 of 5

16

### OTHER INFORMATION

CALIFORNIA PROPOSITION 65: This product does not contain ingredients which are on the current Proposition 65 list.

NEW JERSEY RIGHT-TO-KNOW: This product contains the following ingredients which are non-hazardous, but are among the top five ingredients in this product:

-----CAS#-----  
7732-18-5: Water

#### Notes:

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USERS RESPONSIBILITY; This MSDS provides environmental, health and safety information. This product is to be used in applications consistent with our product literature and container label. Individuals handling this product should be informed to the recommended safety precautions and have access to this MSDS. Please contact your local sales representative of our EH&S Department for further information.

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