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## **SAFETY DATA SHEET**

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### **SECTION 1 – IDENTIFICATION**

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**1.1 Product Identifier:**

Product Name: Contrad 70  
Product Number 19290/7622

**1.2 Relevant identified uses of the substance or mixture and uses advised against:**

Recommended Use :Laboratory use

**1.3 Details of the supplier of the safety data sheet:**

Company **Decon Laboratories Inc.**  
460 Glennie Circle King of Prussia, Pa 19406  
SDS Telephone # (610) 755-0800  
USA

**1.4 Emergency Telephone Number:**

Emergency Number (CHEMTREC): 1-800-424-9300

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### **SECTION 2 – HAZARD(S) IDENTIFICATION**

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**2.1 Classification of the substance or mixture:**

**Labeling according to Regulation (EC) No 1272/2008:**

**Hazard Overview**

Causes eye burns Causes  
skin and eye irritation  
Causes skin irritation  
Harmful if swallowed.

**GHS Classification**

Acute Toxicity Oral Category 4  
Serious eye damage Category 1C  
Skin irritant Cat 2, Eye irritation  
Cat 2B  
Skin Irritant Category 2

**2.2 GHS Label elements, including precautionary statements:**

**Labeling according to Regulation (EC) No 1272/2008:**

The substance is classified and labeled according to the CLP regulation.

## Hazard Pictograms:



**Signal Word:** Danger

### Hazard Statements and Precautionary statements:

H320 Causes eye irritation

H302 Harmful if swallowed

H315 Causes skin irritation.

P285 In case of inadequate ventilation wear respiratory protection.

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

P305B IF IN EYES: Separate eyelids with finger tips.

P351 Rinse cautiously with water for several minutes.

P361 Remove/Take off immediately all contaminated clothing.

### NFPA Rating

Hazard Ratings:

These ratings are Decon Laboratories Inc.'s own assessments of the properties of the material using the ANSI/NFPA 704 Standard. Additional information can be found by consulting in the NFPA published ratings lists (List 325 and list 49).

If no data is listed the information is not available

Health 2      Flammability 0      Reactivity 0

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS:

Not applicable

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## SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

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### 3.1 Substances

Classification according to order (EC) No. 1272/2008 [CLP]

Note: Items listed with a CASRN number have no CAS# available

Item#	Name	EINECS	CAS#	% in product
1	Potassium hydroxide	215-181-3	0001310583	0 - 5
2	Trisodium citrate dihydrate	Unknown	0006132043	6 - 10
3	Water	231-791-2	0007732185	81 - 90

Additional information:

For full text of the statements see Section 16.

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## SECTION 4 – FIRST- AID MEASURES

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### 4.1 Description of first aid measures:

**if inhaled:**

Remove to fresh air. If not breathing, give artificial respiration.

**in case of skin contact:**

Remove contaminated clothing immediately. Wash exposed area with soap and water. If irritation persists, seek medical attention.

**in case of eye contact:**

Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Consult physician.

**if ingested:**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Get person to physician immediately. Do not induce vomiting.

### 4.2 Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

### 4.3 Indication of any immediate medical attention and special treatment needed:

No data.

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## SECTION 5 – FIRE - FIGHTING MEASURES

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### 5.1 Extinguishing media:

**Suitable Extinguishing Media:** Water spray, Carbon dioxide, dry chemical powder, or appropriate alcohol resistant foam.

### 5.2 Special hazards arising from the substance or mixture:

No data

### 5.3 Advice for firefighters:

Use protective equipment resistant to solvents. If necessary, use a respirator.

### 5.4 Further information:

No data.

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## SECTION 6 – ACCIDENTAL RELEASE MEASURES

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### 6.1 Personal precautions, protective equipment and emergency procedures:

No data available.

### 6.2 Environmental precautions:

No data available.

### 6.3 Methods and material for containment and cleaning up:

Use absorbent material and sweep up and place in suitable closed containers for later disposal.

### 6.4 Reference to other sections:

For disposal see section 13.

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## SECTION 7 – HANDLING AND STORAGE

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**7.1 Precaution for safe handling:**  
Use all PPE while handling chemicals.

**Precautions against fire and explosion:**  
No data available.

**7.2 Conditions for safe storage, including any incompatibilities:**  
Observe label precautions. Store at room temperature.

**7.3 Specific end uses(s):**  
Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

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## SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

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### 8.1 Control Parameters:

#### OSHA (ACGIH) Exposure Limits:

		TWA		STEL		CEILING	
		ppm	mg/	ppm	mg/	ppm	mg/
CAS # 0000102716	IDLH: -						
OSHA		Not	-	-	-	-	-
ACGIH		classified	5	-	-	-	-
CAS # 0001310583							
OSHA		Not	-	-	-	-	-
ACGIH		classified	-	-	-	-	2
CAS # 0006132043	IDLH: NE						
OSHA	NE		NE		NE	NE	NE
ACGIH	NE		NE		NE	NE	NE
CAS # 0007732185							
OSHA	NE		NE		NE	NE	NE
ACGIH	NE		NE		NE	NE	NE
CAS # 0027176870							
OSHA	NE		NE		NE	NE	NE
ACGIH	NE		NE		NE	NE	NE
CAS # 0068154972							
OSHA	NE		NE		NE	NE	NE
ACGIH	NE		NE		NE	NE	NE

**Components with workplace control parameters:**  
No data available.

## 8.2 Exposure controls:

### Appropriate engineering controls:

Information about design of technical facilities. Ensure good ventilation. This can be achieved by local exhaust ventilation.

### Personal protective equipment:

#### Eye/Face Protection:

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin Protection:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Body Protection:

Wear suitable protective clothes.

#### Respiratory protection:

Respiratory protection is not required unless they are exposed to concentrations above the exposure limit. Where protection from nuisance levels of vapors are desired, use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or GEN (EU).

#### Control of environmental exposures:

Do not let product enter drains.

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## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

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

a)	Appearance	Form: Liquid Color: Milky
b)	Odor	No data available.
c)	Odor Threshold	No data available.
d)	pH	12.0 - 14.0
e)	Melting point / freezing point	32°F / No data available.
f)	Initial boiling point and boiling range	212°F.
g)	Flash Point	No data available
h)	Evaporation rate	No data available.
i)	Flammability (solid, gas)	No data available.
j)	Upper/lower flammability or explosive limits	No data available.
k)	Vapor pressure	No data available.
l)	Vapor density	No data available.

m)	Relative density	No data available.
n)	Water solubility	Miscible.
o)	Partition coefficient: n-octanol/water	No data available.
p)	Auto-ignition temperature	The substance or mixture is not classified as self-heating
q)	Decomposition	No data available.
r)	Viscosity	No data available.
s)	Explosive properties	Not explosive
t)	Oxidizing properties	The substance or mixture is not classified as oxidizing.

**9.2 Other safety information:** None

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## SECTION 10 – STABILITY AND REACTIVITY

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### 10.1 Reactivity

No data available.

### 10.2 Stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Will not occur.

### 10.4 Conditions to Avoid

No data available.

### 10.5 Incompatible Materials

Strong acids.

### 10.6 Hazardous Decomposition Products

No data available.

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## SECTION 11 – TOXICOLOGICAL INFORMATION

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### 11.1 Information on toxicological effects:

#### Acute toxicity:

No data available.

#### Skin corrosion/irritation

No data available.

#### Serious eye damage/eye irritation

No data available.

#### Respiratory or skin sensitization

No data available.

#### Germ Cell mutagenicity

No data available.

**Carcinogenicity**  
No data available.

**Reproductive toxicity**  
No data available.

**Specific target organ toxicity - single exposure**  
No data available.

**Specific target organ toxicity - repeated exposure**  
No data available.

**Aspiration hazard**  
No data available.

**Additional information**  
None

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## SECTION 12 – ECOLOGICAL INFORMATION

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**12.1 Toxicity**  
No data available.

**12.2 Persistence and degradability**  
No data available.

**12.3 Bioaccumulative potential**  
No data available.

**12.4 Mobility in soil**  
No data available.

**12.5 Other adverse effects**  
No data available.

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## SECTION 13 – DISPOSAL CONSIDERATIONS

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### 13.1 Appropriate Method of Disposal of Substance or Preparation

Observe all federal, state, and local environmental regulations.

The following chart lists the status of the chemical and its components in reference to 40 CFR Part 261.33. If the product is listed by code number the substance may be subject to special federal and state disposal regulations. If no codes are listed the material must be disposed in compliance with all Federal, State and Local Regulations.

CAS #	Waste Code	Regulated Name
0000102716	not listed	not listed
0001310583	not listed	not listed
0006132043	not listed	not listed
0007732185	not listed	not listed
0027176870	not listed	not listed
0068154972	not listed	not listed

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## SECTION 14 – TRANSPORT INFORMATION

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Transport only in accordance with ADR for land carriage, RID for railways, IMDG for marine transport and ICAD/IATA for air transport.

<b>14.1 UN number</b>	1814
<b>14.2 Proper UN-dispatch name:</b>	Potassium hydroxide, Solution
<b>14.3 Transport dangers classes:</b>	
Classification Code:	8
<b>14.4 Packaging group</b>	<b>II</b>
<b>14.5 Environmental dangers</b>	
Overland transport (ADR/RID)	n.a.
Marine pollutant	n.a.
<b>14.6 Special precautions for the user</b>	
None	

**Note:**

1 Liter & Sample size: ORM-D  
or LTD QTY

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## SECTION 15 – REGULATORY INFORMATION

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### 15.1 Labeling according to regulations for dangerous goods.

**Note:**

1 Liter & Sample size: ORM-D  
or LTD QTY

All components of this product are on the TSCA public inventory.

Prop 65 - Column A identifies those items which are known to the State of California to cause cancer. Column B identified items which are known to the State of California to cause reproductive toxicity.

CAS#	Column A	Column B
0000102716	no	no
0001310583	no	no
0006132043	no	no
0007732185	no	no
0027176870	no	no
0068154972	no	no

State Regulatory Information: If a CAS# is listed below this material is subject to the listed state right-to-know requirements.

CAS#	CAS#
0000102716	Not listed
0001310583	Not listed
0006132043	Not listed
0007732185	Not listed
0027176870	Not listed
0068154972	Not listed

SARA Toxic Release Chemicals (as defined in Section 313 of SARA Title III)

This list identifies the toxic chemicals, including their de minimis concentrations for which reporting is required under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA). The list is also referred to as the Toxics Release Inventory (TRI) List.

CAS#	Regulated Name	De minimus conc. %	Rep Thres.
0000102716	Not Listed	Not Listed	Not Listed
0001310583	Not Listed	Not Listed	Not Listed
0006132043	Not Listed	Not Listed	Not Listed

0007732185	Not Listed	Not Listed	Not Listed
0027176870	Not Listed	Not Listed	Not Listed
0068154972	Not Listed	Not Listed	Not Listed

**SARA Extremely Hazardous Substances and TPQs**

This list includes hazardous chemicals as defined in 29 CFR 1910.1200(c); and extremely hazardous substances regulated under Section 302 of SARA Title III with their TPQs (in pounds), as listed in 40 CFR 355. Appendices A and B.

CAS#	Regulated Name	TPQ (pounds)	EHS RQ (pounds)
0000102716	Not Listed	Not Listed	Not Listed
0001310583	Not Listed	Not Listed	Not Listed
0006132043	Not Listed	Not Listed	Not Listed
0007732185	Not Listed	Not Listed	Not Listed
0027176870	Not Listed	Not Listed	Not Listed
0068154972	Not Listed	Not Listed	Not Listed

**CERCLA**

The hazardous substances, and their reportable quantities (RQs) are listed in the federal regulations at 40 CFR Part 302, Table 302.4. Release of a CERCLA hazardous substance in an amount equal to or greater than its RQ, in any 24-hour period, must be reported to the National Response Center at (800) 424-8802

. CAS#	Regulated Name	RQ (pounds)
0000102716	Not listed	Not listed
0001310583	Not listed	Not listed
0001310583	Potassium hydroxide	1,000
0006132043	Not listed	Not listed
0007732185	Not listed	Not listed
0027176870	Not listed	Not listed
0027176870	Dodecylbenzenesulfonic acid	1,000
0068154972	Not listed	Not listed

**15.2 Other regulations, restrictions and ban orders:**

None

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**SECTION 16 – OTHER INFORMATION**

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**Disclaimer:** Not for drug, household or other uses.

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**Warranty:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. MOFA Global LLC shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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