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Identificati	on	
Product iden	tifier	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
Trade name:	5% Phenol Solution	<u> </u>
Article numb	er: 144-943	
Manufacture	Equipment Inc. ecrest Dr. 77065	
Emergency te INFOTRAC U	department: techservices@ofite.com e lephone number: USA - CANADA: 1-800-535-5053 DNAL: 1-352-323-3500	
Hazard(s)	identification	
Classification	n of the substance or mixture	
GH	HS08 Health hazard	
Muta. 2 STOT RE 2	H341 Suspected of causing genetic defects. H373 May cause damage to organs through pr	rolonged or repeated exposure.
GH	ISO5 Corrosion	
	3 H314 Causes severe skin burns and eye damag	ge.
Eye Dam. 1	H318 Causes serious eye damage.	
Hazard pictor	ements The product is classified and labeled account	ording to the Globally Harmonized System (GHS
Signal word	Danger	
Phenol Hazard staten Causes severe	e skin burns and eye damage.	
May cause da Precautionar	causing genetic defects. amage to organs through prolonged or repeated o y statements he dusts or mists.	exposure.
Wear protecti Wash thoroug	ive gloves/protective clothing/eye protection/face ghly after handling.	protection.
	al instructions before use. e until all safety precautions have been read and	understood.
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If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Wash contaminated clothing before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Immediately call a POISON CENTER/doctor.
Specific treatment (see on this label).
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF exposed or concerned: Get medical advice/attention.
If swallowed: Rinse mouth. Do NOT induce vomiting.
Get medical advice/attention if you feel unwell.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· Classification system: · NFPA ratings (scale 0 - 4)
A TATA Taungs (scale 0 - 4)
Health = 3
Fire = 1
3 0 Reactivity = 0
· HMIS-ratings (scale 0 - 4)
HEALTH *3 Health = $*3$
FIRE 1 Fire = 1
$\frac{1}{\text{REACTIVITY}[0]} Reactivity = 0$
· Other hazards
• Results of PBT and vPvB assessment
• PBT: Not applicable. • vPvB: Not applicable.
2 Composition information on incrediente

3 Composition/information on ingredients

· Chemical characterization: Mixtures

 $\cdot \textit{Description: Mixture of the substances listed below with nonhazardous additions.}$

· Dangerous components:

CAS: 108-95-2 Phenol

· Table of Nonhazardous Ingredients

CAS: 7732-18-5 Water

4 First-aid measures

· Description of first aid measures

• General information:

Immediately remove any clothing soiled by the product.

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

- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.

• After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

• After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.

• Information for doctor:

• Most important symptoms and effects, both acute and delayed No further relevant information available.

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• *Indication of any immediate medical attention and special treatment needed No further relevant information available.*

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- *Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.*
- Environmental precautions: No special measures required.
- · Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

- Ensure adequate ventilation.
- 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.
 Protective Action Criteria for Chemicals

· PAC-1:	
CAS: 108-95-2 Phenol	15 ppm
· PAC-2:	
CAS: 108-95-2 Phenol	23 ppm
· PAC-3:	
CAS: 108-95-2 Phenol	200 ppm

7 Handling and storage

- · Handling:
- · Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

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	(Contd. of page 3)	
· Control parameters		
· Components with limit values that require monitoring at the workplace:		
CAS	: 108-95-2 Phenol	
PEL	Long-term value: 19 mg/m³, 5 ppm Skin	
REL	Long-term value: 19 mg/m³, 5 ppm Ceiling limit value: 60* mg/m³, 15.6* ppm *15-min; Skin	
TLV	Long-term value: 19 mg/m³, 5 ppm Skin; BEI	
· Ingr	edients with biological limit values:	
CAS	: 108-95-2 Phenol	
BEI	250 mg/g creatinine	
	LD50 Intraperitoneal: urine	
	Time: end of shift	
	LD50: Phenol with hydrolysis (background, nonspecific)	
· Add	itional information: The lists that were valid during the creation were used as basis.	
·Exp	osure controls	
	onal protective equipment:	
· Gen	eral protective and hygienic measures:	
Keep	p away from foodstuffs, beverages and feed.	
	ediately remove all soiled and contaminated clothing.	
	h hands before breaks and at the end of work.	
	Store protective clothing separately.	
	d contact with the eyes.	
	d contact with the eyes and skin.	
	ithing equipment:	
In co	use of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use iratory protective device that is independent of circulating air.	
	ection of hands:	
un	Protective gloves	
Due	glove material has to be impermeable and resistant to the product/ the substance/ the preparation. to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the nical mixture.	
	ction of the glove material on consideration of the penetration times, rates of diffusion and the degradation erial of gloves	
varie the g	selection of the suitable gloves does not only depend on the material, but also on further marks of quality and es from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove material can not be calculated in advance and has therefore to be checked prior to the application. etration time of glove material	
	exact break through time has to be found out by the manufacturer of the protective gloves and has to be	
	rved.	
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• Eye protection:

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Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and o	chemical properties	
General Information		
Appearance:	x · · · 1	
Form:	Liquid	
Color: Odor:	Colorless Phenol-like	
Odor: Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
Flash point:	174 °C (345 °F)	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	595 °C (1103 °F)	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17 mm Hg)	
Density:	Not determined.	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/wate	er): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	5.0 %	
Water:	95.0 %	

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VOC content:

5.0 % 50.0 g/l / 0.42 lb/gl No further relevant information available.

• Other information

10 Stability and reactivity

· Reactivity No further relevant information available.

· Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimates)

Oral	LD50	6340 mg/kg (rat)
Dermal	LD50	17000 mg/kg (rabbit)
Inhalative	LC50/4 h	60 mg/l

CAS: 108-95-2 Phenol

Oral	LD50	317 mg/kg (rat)
Dermal		850 mg/kg (rabbit)
Inhalative	LC50/4 h	3 mg/l (ATE)

· Primary irritant effect:

• on the skin: Caustic effect on skin and mucous membranes.

- on the eye:
- Strong caustic effect.

Strong irritant with the danger of severe eye injury.

- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)
CAS: 108-95-2 Phenol 3
· NTP (National Toxicology Program)
None of the ingredients is listed.
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· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- · Additional ecological information:
- General notes: Must not reach bodies of water or drainage ditch undiluted or unneutralized.
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

- *Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.*
- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

· UN-Number		
· DOT, IMDG, IATA	UN2821	
· UN proper shipping name		
DOT	Phenol solutions	
IMDG, IATA	PHENOL SOLUTION	
· Class	6.1 Toxic substances	

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· IMDG, IATA	
8 8	
· Class	6.1 Toxic substances
· Label	6.1
· Packing group · DOT, IMDG, IATA	111
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Toxic substances
· Danger code (Kemler):	6.1
• EMS Number:	F-A,S-A
· Stowage Category	Α
• Transport in bulk according to Annex I MARPOL73/78 and the IBC Code	I of Not applicable.
· UN "Model Regulation":	UN 2821 PHENOL SOLUTIONS, 6.1, III

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

· Section 355 (extremely hazardous substances):

CAS: 108-95-2 Phenol

· Section 313 (Specific toxic chemical listings):

CAS: 108-95-2 Phenol

• TSCA (Toxic Substances Control Act):

CAS: 108-95-2 Phenol

· Proposition 65

· 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.

 \cdot Carcinogenic categories

· EPA (Environmental Protection Agency)

CAS: 108-95-2 Phenol

· TLV (Threshold Limit Value established by ACGIH)

CAS: 108-95-2 Phenol

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·NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the ingredients is listed.
• <i>GHS label elements</i> The product is classified and labeled according to the Globally Harmonized System (GHS). • <i>Hazard pictograms</i>
GHS05 GHS08
· Signal word Danger
• Hazard-determining components of labeling: Phenol
· Hazard statements
Causes severe skin burns and eye damage.
Suspected of causing genetic defects.
May cause damage to organs through prolonged or repeated exposure.
· Precautionary statements
Do not breathe dusts or mists.
Wear protective gloves/protective clothing/eye protection/face protection.
Wash thoroughly after handling.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Wash contaminated clothing before reuse.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Immediately call a POISON CENTER/doctor.
Specific treatment (see on this label).
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF exposed or concerned: Get medical advice/attention.
If swallowed: Rinse mouth. Do NOT induce vomiting.
Get medical advice/attention if you feel unwell.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· 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.

- · Department issuing SDS: Environment protection department.
- · Contact:
- · Date of preparation / last revision
- Revision 0.1, 05-01-2015: revised to correct emergency contact and information dept contact. STN Creation date for SDS 04-23-14 LS Revision 0.2, 07-03-2017: Reviewed SDS. STN 07/03/2017 / -
- 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

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IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Muta. 2: Germ cell mutagenicity – Category 2
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
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