

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 10/18/2013 Version: 1.0

| SECTION 1: Identification of the sub  | ostance/mixture and of the company/undertaking |  |
|---|--|--|
|   | Stance/mixture and of the company/undertaking  |  |
| 1.1. Product identifier   |  |  |
| Product form  | : Mixture                                      |  |
| Product name  | : Chromic Acid, 10% w/v                        |  |
| Product code  | : LC13100                                      |  |
| 1.2. Relevant identified uses of the subs   | stance or mixture and uses advised against     |  |
| Use of the substance/mixture  | : For laboratory and manufacturing use only.   |  |
| 1.3. Details of the supplier of the safety  | data sheet                                     |  |
| LabChem Inc<br>Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court<br>Zelienople, PA 16063 - USA<br>T 412-826-5230 - F 724-473-0647<br>info@labchem.com - www.labchem.com |  |  |
| 1.4. Emergency telephone number   |  |  |
| Emergency number  | : CHEMTREC: 1-800-424-9300 or 011-703-527-3887 |  |
| SECTION 2: Hazards identification   |  |  |
| 2.1. Classification of the substance or n   | nixture  |  |

## **GHS-US** classification

| Acute Tox. 4 (Oral)                 | H302 |
|-------------------------------------|------|
| Acute Tox. 3 (Dermal)               | H311 |
| Acute Tox. 4 (Inhalation:dust,mist) | H332 |
| Skin Corr. 1A                       | H314 |
| Resp. Sens. 1                       | H334 |
| Skin Sens. 1                        | H317 |
| Muta. 1B                            | H340 |
| Carc. 1A                            | H350 |
| Repr. 2                             | H361 |
| STOT RE 1                           | H372 |
| Aquatic Chronic 2                   | H411 |
|                                     |      |

### 2.2. Label elements

## **GHS-US** labelling

| GHS-US labelling                  |   |  |
|-----------------------------------|---|--|
| Hazard pictograms (GHS-US)        |   |  |
|                                   | GHS05 GHS06 GHS07 GHS08 GHS09   |  |
| Signal word (GHS-US)              | : Danger  |  |
| Hazard statements (GHS-US)        | <ul> <li>H302+H332 - Harmful if swallowed or if inhaled<br/>H311 - Toxic in contact with skin</li> <li>H314 - Causes severe skin burns and eye damage</li> <li>H317 - May cause an allergic skin reaction</li> <li>H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled</li> <li>H340 - May cause genetic defects</li> <li>H350 - May cause cancer (Inhalation)</li> <li>H361 - Suspected of damaging fertility or the unborn child</li> <li>H372 - Causes damage to organs (kidneys, liver, respiratory system, Skin, eye) through<br/>prolonged or repeated exposure</li> <li>H411 - Toxic to aquatic life with long lasting effects</li> </ul>   |  |
| Precautionary statements (GHS-US) | <ul> <li>P201 - Obtain special instructions before use</li> <li>P202 - Do not handle until all safety precautions have been read and understood</li> <li>P260 - Do not breathe mist, vapours, spray</li> <li>P264 - Wash exposed skin thoroughly after handling</li> <li>P270 - Do not eat, drink or smoke when using this product</li> <li>P271 - Use only outdoors or in a well-ventilated area</li> <li>P272 - Contaminated work clothing should not be allowed out of the workplace</li> <li>P273 - Avoid release to the environment</li> <li>P280 - Wear protective gloves, protective clothing, eye protection, face protection</li> <li>P284 - [In case of inadequate ventilation] wear respiratory protection</li> <li>P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting</li> <li>P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated</li> </ul> |  |

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|         |                                | <ul> <li>clothing. Rinse skin with water/shower</li> <li>P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing</li> <li>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</li> <li>P308+P313 - IF exposed or concerned: Get medical advice/attention</li> <li>P310 - Immediately call a POISON CENTER or doctor/physician</li> <li>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention</li> <li>P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER/doctor/</li> <li>P363 - Wash contaminated clothing before reuse</li> <li>P391 - Collect spillage</li> <li>P405 - Store locked up</li> <li>P501 - Dispose of contents/container to comply with local, state and federal regulations</li> </ul> |
|---------|--------------------------------|---|
| 2.3.    | Other hazards                  |   |
| Other h | azards not contributing to the | : None.   |

classification 2.4. Unknown acute toxicity (GHS-US)

## No data available

## **SECTION 3: Composition/information on ingredients**

### 3.1. Substance

### Not applicable

## Full text of H-phrases: see section 16

| Name         | Product identifier | %  | GHS-US classification   |
|--------------|--------------------|----|---|
| Water        | (CAS No) 7732-18-5 | 90 | Not classified  |
| Chromic Acid | (CAS No) 1333-82-0 | 10 | Ox. Sol. 1, H271<br>Acute Tox. 3 (Oral), H301<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 2 (Inhalation), H330<br>Skin Corr. 1A, H314<br>Resp. Sens. 1, H314<br>Skin Sens. 1, H317<br>Muta. 1B, H340<br>Carc. 1A, H350<br>Repr. 2, H361<br>STOT RE 1, H372<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |

| 4.1. Description of first aid measur  | es  |
|---------------------------------------|---|
| First-aid measures general            | : Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medica advice/attention.  |
| First-aid measures after inhalation   | : Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell. Immediately call a POISON CENTER or doctor/physician. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. |
| First-aid measures after skin contact | : Immediately call a POISON CENTER or doctor/physician. Remove/Take off immediately all<br>contaminated clothing. Wash contaminated clothing before reuse. Rinse skin with water/shower<br>If skin irritation or rash occurs: Get medical advice/attention.   |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.  |
| First-aid measures after ingestion    | : Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor/physician if you feel<br>unwell. Immediately call a POISON CENTER or doctor/physician.   |
| 4.2. Most important symptoms and      | effects, both acute and delayed   |
| Symptoms/injuries                     | <ul> <li>Causes severe skin burns and eye damage. May cause genetic defects. Suspected of damagin<br/>fertility or the unborn child. Causes damage to organs (kidneys, liver) through prolonged or<br/>repeated exposure.</li> </ul>  |
| Symptoms/injuries after inhalation    | Danger of serious damage to health by prolonged exposure through inhalation. Harmful if<br>inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause a<br>allergic skin reaction. May cause cancer by inhalation.   |
| Symptoms/injuries after skin contact  | <ul> <li>Repeated exposure to this material can result in absorption through skin causing significant<br/>health hazard. Toxic in contact with skin.</li> </ul>   |
| Symptoms/injuries after eye contact   | : Causes serious eye damage.  |
| Symptoms/injuries after ingestion     | : Swallowing a small quantity of this material will result in serious health hazard.  |
| 4.3. Indication of any immediate me   | edical attention and special treatment needed   |
| No additional information available   |   |
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|---|--|--|
| SECTION 5: Firefighting measures                          |  |  |
| 5.1. Extinguishing media                                  |  |  |
| Suitable extinguishing media                              | : Foam. Dry powder. Carbon dioxide. Water spray. Sand.   |  |
| Unsuitable extinguishing media                            | : Do not use a heavy water stream.   |  |
| 5.2. Special hazards arising from the sub                 | ostance or mixture   |  |
| Reactivity  | : Thermal decomposition generates : Corrosive vapours.   |  |
| 5.3. Advice for firefighters                              |  |  |
| Firefighting instructions                                 | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.  |  |
| Protection during firefighting                            | : Do not enter fire area without proper protective equipment, including respiratory protection.  |  |
|   |  |  |
| SECTION 6: Accidental release meas                        | sures  |  |
| 6.1. Personal precautions, protective equ                 | uipment and emergency procedures   |  |
| 6.1.1. For non-emergency personnel                        |  |  |
| Protective equipment                                      | : Safety glasses. Gloves. Protective clothing.   |  |
| Emergency procedures                                      | : Evacuate unnecessary personnel.  |  |
| 6.1.2. For emergency responders                           |  |  |
| Protective equipment                                      | : Equip cleanup crew with proper protection.   |  |
| Emergency procedures                                      | : Ventilate area.  |  |
| 6.2. Environmental precautions                            |  |  |
| Prevent entry to sewers and public waters. Notify         | authorities if liquid enters sewers or public waters. Avoid release to the environment.  |  |
| 6.3. Methods and material for containme                   | nt and cleaning up   |  |
| Methods for cleaning up                                   | : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.   |  |
| 6.4. Reference to other sections                          |  |  |
| See Heading 8. Exposure controls and personal             | protection.  |  |
| SECTION 7: Handling and storage                           |  |  |
| 7.1. Precautions for safe handling                        |  |  |
| Precautions for safe handling                             | : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Use only outdoors or in a well-ventilated area. Do not breathe mist, vapours, spray. Avoid contact during pregnancy/while nursing. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so. |  |
| Hygiene measures  | : Do not eat, drink or smoke when using this product. Wash exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.   |  |
| 7.2. Conditions for safe storage, including               | ng any incompatibilities   |  |
| Technical measures  | : Comply with applicable regulations.  |  |
| Storage conditions  | : Keep only in the original container in a cool, well ventilated place away from : incompatible materials, combustible materials. Keep container closed when not in use.   |  |
| Incompatible products                                     | : Strong bases. Strong reducing agents. metals. combustible materials.   |  |
| Incompatible materials                                    | : Sources of ignition. Direct sunlight.  |  |
| 7.3. Specific end use(s)                                  |  |  |
| No additional information available                       |  |  |
| SECTION 8: Exposure controls/perso                        | onal protection  |  |

8.1. Control parameters

| Chromic Acid (1333-82-0)  |   |                         |
|---|---|-------------------------|
| USA ACGIH   | ACGIH TWA (mg/m³)   | 0.05 mg/m³              |
| USA OSHA  | OSHA PEL (TWA) (mg/m³)  | 0.005 mg/m <sup>3</sup> |
| 8.2. Exposure controls  |   |                         |
| Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediat of any potential exposure. Provide adequate general and local exhaust ventilation. |   |                         |
| Personal protective equipment   | rsonal protective equipment : Avoid all unnecessary exposure. |                         |
| Hand protection   | protection : Wear protective gloves.                          |                         |
| Eye protection  | : Chemical goggles or face shield.                            |                         |
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| Skin and body protection | : Wear suitable protective clothing.                             |  |
|--------------------------|--|--|
| Respiratory protection   | : In case of inadequate ventilation wear respiratory protection. |  |
| Other information        | : Do not eat, drink or smoke during use.                         |  |

## **SECTION 9: Physical and chemical properties**

| 9.1. Information on basic physical and o   | chemical properties                           |
|--|---|
| Physical state                             | : Liquid                                      |
| Colour                                     | : orange.                                     |
| Odour                                      | : None.                                       |
| Odour threshold                            | : No data available                           |
| pH   | : No data available                           |
| Relative evaporation rate (butylacetate=1) | : No data available                           |
| Melting point                              | : No data available                           |
| Freezing point                             | : No data available                           |
| Boiling point                              | : No data available                           |
| Flash point                                | : No data available                           |
| Self ignition temperature                  | : No data available                           |
| Decomposition temperature                  | : No data available                           |
| Flammability (solid, gas)                  | : No data available                           |
| Vapour pressure                            | : No data available                           |
| Relative vapour density at 20 °C           | : No data available                           |
| Relative density                           | : No data available                           |
| Density                                    | : 1.1 g/ml                                    |
| Solubility                                 | : Soluble in water. Substance sinks in water. |
| Log Pow                                    | : No data available                           |
| Log Kow                                    | : No data available                           |
| Viscosity, kinematic                       | : No data available                           |
| Viscosity, dynamic                         | : No data available                           |
| Explosive properties                       | : No data available.                          |
| Oxidising properties                       | : May intensify fire; oxidiser.               |
| Explosive limits                           | : No data available                           |
|  |   |

## 9.2. Other information

## No additional information available

| SECTION 10: Stability and reactivity   |  |  |  |
|--|--|--|--|
| 10.1. Reactivity   |  |  |  |
| Thermal decomposition generates : Corrosive vapours.   |  |  |  |
| 10.2. Chemical stability   |  |  |  |
| Stable under normal conditions.  |  |  |  |
| 10.3. Possibility of hazardous reactions   |  |  |  |
| May react violently with reducing agents.  |  |  |  |
| 10.4. Conditions to avoid  |  |  |  |
| Direct sunlight. Extremely high or low temperatures.   |  |  |  |
| 10.5. Incompatible materials   |  |  |  |
| Strong reducing agents. Strong bases. alcohols. Aldehydes. aluminium. combustible materials. metals. |  |  |  |
| 0.6. Hazardous decomposition products  |  |  |  |
| oxygen. Thermal decomposition generates : Corrosive vapours.   |  |  |  |
| SECTION 11: Toxicological information  |  |  |  |
| 11.1. Information on toxicological effects   |  |  |  |
| Acute toxicity : Harmful if swallowed. Toxic in contact with skin. Harmful if inhaled.               |  |  |  |

| Chromic Acid, 10% w/v      |                 |
|----------------------------|-----------------|
| LD50 oral rat              | 500 mg/kg       |
| LD50 dermal rat            | 550 mg/kg       |
| LD50 dermal rabbit         | 570 mg/kg       |
| LC50 inhalation rat (mg/l) | 2.17 mg/l/4h    |
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| Chromic Acid (1333-82-0)                            |   |  |
|---|---|--|
| LD50 oral rat                                       | 50 mg/kg (Rat)  |  |
| LD50 dermal rat                                     | 55 mg/kg (Rat)  |  |
| LD50 dermal rabbit                                  | 57 mg/kg (Rabbit)   |  |
| LC50 inhalation rat (mg/l)                          | 0.217 mg/l/4h (Rat)   |  |
| Water (7732-18-5)                                   |   |  |
| LD50 oral rat                                       | ≥ 90000 mg/kg   |  |
| Skin corrosion/irritation                           | : Causes severe skin burns and eye damage.  |  |
| Serious eye damage/irritation                       | : Not classified  |  |
| Respiratory or skin sensitisation                   | : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.   |  |
| Germ cell mutagenicity                              | : May cause genetic defects.  |  |
| Carcinogenicity                                     | : May cause cancer (Inhalation).  |  |
| Chromic Acid (1333-82-0)                            |   |  |
| IARC group  | 3   |  |
| Reproductive toxicity                               | : Suspected of damaging fertility or the unborn child.  |  |
| Specific target organ toxicity (single exposure)    | : Not classified  |  |
| Specific target organ toxicity (repeated exposure)  | : Causes damage to organs (kidneys, liver, respiratory system, Skin, eye) through prolonged or repeated exposure.   |  |
|   | Causes damage to organs through prolonged or repeated exposure  |  |
| Aspiration hazard                                   | : Not classified  |  |
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. Harmful if swallowed. Harmful if inhaled. Toxic in contact with skin.   |  |
| Symptoms/injuries after inhalation                  | : Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. May cause cancer by inhalation. |  |
| Symptoms/injuries after skin contact                | : Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin.   |  |
| Symptoms/injuries after eye contact                 | : Causes serious eye damage.  |  |
| Symptoms/injuries after ingestion                   | : Swallowing a small quantity of this material will result in serious health hazard.  |  |

| SECTION 12: Ecological information  |   |  |
|-------------------------------------|---|--|
| 12.1. Toxicity                      |   |  |
| Ecology - water                     | : Toxic to aquatic life with long lasting effects.      |  |
| Chromic Acid, 10% w/v               |   |  |
| LC50 fishes 1                       | 400 mg/l  |  |
| Chromic Acid (1333-82-0)            |   |  |
| LC50 fishes 1                       | 40 mg/l (96 h; Colisa fasciatus)                        |  |
| EC50 Daphnia 1                      | 10 - 100 mg/l (48 h; Daphnia magna)                     |  |
| 12.2. Persistence and degradability |   |  |
| Chromic Acid, 10% w/v               |   |  |
| Persistence and degradability       | May cause long-term adverse effects in the environment. |  |
| Chromic Acid (1333-82-0)            |   |  |
| Biochemical oxygen demand (BOD)     | Not applicable  |  |
| Chemical oxygen demand (COD)        | Not applicable  |  |
| ThOD                                | Not applicable  |  |
| BOD (% of ThOD)                     | Not applicable  |  |
| 12.3. Bioaccumulative potential     |   |  |
| Chromic Acid, 10% w/v               |   |  |
| Bioaccumulative potential           | Not established.  |  |
| Chromic Acid (1333-82-0)            |   |  |
| BCF fish 1                          | 4.6 - 72 (Cyprinus carpio; Test duration: 6 weeks)      |  |
| BCF fish 2                          | 16 (Pisces)   |  |
| BCF other aquatic organisms 1       | 192 (Mytilidae; Chrome)                                 |  |
| BCF other aquatic organisms 2       | 125 (Ostreidae; Chrome)                                 |  |
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| Chromic Acid (1333-82-0)   |   |
|--|---|
| Bioaccumulative potential  | Not bioaccumulative.  |
| 12.4. Mobility in soil   |   |
| No additional information available                                |   |
| 2.5. Other adverse effects   |   |
| Other information  | : Avoid release to the environment.   |
| SECTION 13: Disposal consideration                                 | S   |
| 3.1. Waste treatment methods                                       |   |
| Naste disposal recommendations                                     | : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations.  |
| Ecology - waste materials  | : Hazardous waste due to toxicity. Avoid release to the environment.  |
| SECTION 14: Transport information                                  |   |
| n accordance with DOT  |   |
| 14.1. UN number  |   |
| JN-No.(DOT)  | : 1755  |
| DOT NA no.   | UN1755  |
| 4.2. UN proper shipping name                                       |   |
| OOT Proper Shipping Name   | : Chromic acid solution   |
| Department of Transportation (DOT) Hazard<br>Classes               | : 8 - Class 8 - Corrosive material 49 CFR 173.136   |
| lazard labels (DOT)  | : 8 - Corrosive substances  |
| Posking group (DOT)  | E H. Medium Donger  |
| Packing group (DOT)<br>DOT Special Provisions (49 CFR 172.102)     | <ul> <li>II - Medium Danger</li> <li>B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized.</li> <li>IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.</li> <li>T8 - 4 178.274(d)(2) Normal Prohibited</li> <li>TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 95 / (1 + a (tr - tf)) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: a = (d15 - d50) / 35*d50 Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.</li> <li>TP12 - This material is considered highly corrosive to steel.</li> </ul> |
| DOT Packaging Exceptions (49 CFR 173.xxx)                          | : 154   |
| DOT Packaging Non Bulk (49 CFR 173.xxx)                            | : 202   |
| OOT Packaging Bulk (49 CFR 173.xxx)                                | : 242   |
| 14.3. Additional information                                       |   |
| Other information  | : No supplementary information available.   |
| Overland transport<br>No additional information available          |   |
| Fransport by sea   |   |
| DOT Vessel Stowage Location<br>DOT Vessel Stowage Other            | <ul> <li>C - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel.</li> <li>40 - Stow "clear of living quarters",44 - Stow "away from" oxidizers,89 - Segregation same as for oxidizers,100 - Stow "away from" flammable solids</li> </ul>  |
| Air transport  |   |
| DOT Quantity Limitations Passenger aircraft/rail<br>49 CFR 173.27) | : 1L  |
| DOT Quantity Limitations Cargo aircraft only (49<br>CFR 175.75)    | : 30 L  |
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| SECTION 15: Regulatory information   |       |  |
|--|-------|--|
| 15.1. US Federal regulations   |       |  |
| Chromic Acid (1333-82-0)   |       |  |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory<br>Listed on SARA Section 313 (Specific toxic chemical listings) |       |  |
| RQ (Reportable quantity, section 304 of EPA's List of Lists) :   | 10 lb |  |

## 15.2. International regulations

## CANADA

| Chromic Acid, 10% w/v  |   |  |
|--|---|--|
| WHMIS Classification         Class E - Corrosive Material           Class D Division 2 Subdivision A - Very toxic material causing other toxic effects |   |  |
| Chromic Acid (1333-82-0)   |   |  |
| WHMIS Classification   | Class C - Oxidizing Material<br>Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic<br>effects<br>Class E - Corrosive Material |  |

## **EU-Regulations**

No additional information available

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

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

Not classified

## 15.2.2. National regulations

No additional information available

## 15.3. US State regulations

| Chromic Acid (1333-82-0)                                 |  |   |   |                                      |
|--|--|---|---|--------------------------------------|
| U.S California -<br>Proposition 65 -<br>Carcinogens List | U.S California -<br>Proposition 65 -<br>Developmental Toxicity | U.S California -<br>Proposition 65 -<br>Reproductive Toxicity -<br>Female | U.S California -<br>Proposition 65 -<br>Reproductive Toxicity -<br>Male | No significance risk level<br>(NSRL) |
| Yes  | Yes  | Yes   | Yes   |                                      |

Chromic Acid (1333-82-0)

## **SECTION 16: Other information**

Other information

: None.

### Full text of H-phrases: see section 16:

| Acute Tox. 2 (Inhalation)           | Acute toxicity (inhal.), Category 2                               |
|-------------------------------------|---|
| Acute Tox. 3 (Dermal)               | Acute toxicity (dermal), Category 3                               |
| Acute Tox. 3 (Oral)                 | Acute toxicity (oral), Category 3                                 |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4                  |
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4                                 |
| Aquatic Acute 1                     | Hazardous to the aquatic environment — AcuteHazard, Category 1    |
| Aquatic Chronic 1                   | Hazardous to the aquatic environment — Chronic Hazard, Category 1 |
| Aquatic Chronic 2                   | Hazardous to the aquatic environment — Chronic Hazard, Category 2 |
| Carc. 1A                            | Carcinogenicity, Category 1A                                      |
| Muta. 1B                            | Germ cell mutagenicity, Category 1B                               |
| Ox. Sol. 1                          | Oxidising Solids, Category 1                                      |
| Repr. 2                             | Reproductive toxicity, Category 2                                 |

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| Resp. Sens. 1 | Sensitisation — Respiratory, category 1                                      |
|---------------|--|
| Skin Corr. 1A | Skin corrosion/irritation, Category 1A                                       |
| Skin Sens. 1  | Sensitisation — Skin, category 1   |
| STOT RE 1     | Specific target organ toxicity — Repeated exposure, Category 1               |
| H271          | May cause fire or explosion; strong oxidiser                                 |
| H301          | Toxic if swallowed   |
| H302          | Harmful if swallowed   |
| H311          | Toxic in contact with skin   |
| H314          | Causes severe skin burns and eye damage                                      |
| H317          | May cause an allergic skin reaction  |
| H330          | Fatal if inhaled   |
| H332          | Harmful if inhaled   |
| H334          | May cause allergy or asthma symptoms or breathing difficulties if<br>inhaled |
| H340          | May cause genetic defects  |
| H350          | May cause cancer   |
| H361          | Suspected of damaging fertility or the unborn child                          |
| H372          | Causes damage to organs through prolonged or repeated exposure               |
| H400          | Very toxic to aquatic life   |
| H410          | Very toxic to aquatic life with long lasting effects                         |
| H411          | Toxic to aquatic life with long lasting effects                              |
|               |  |

| : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given. |
|---|
| : 0 - Materials that will not burn.   |
| : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.                          |
| : OX - This denotes an oxidizer, a chemical which can greatly increase the rate of combustion/fire.                   |
|   |
| : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given                 |
| : 0 Minimal Hazard  |
| : 0 Minimal Hazard  |
| : J   |
|   |

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