

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 05/27/2015

Reviewed on 05/27/2015

1 Identification

- **Product identifier**
- **Trade name: Rapid Fixer**
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Product description** Aqueous Acidic Solution
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Clayton Chemical
2630 Homestead Pl.
Rancho Dominguez, CA 90220
Telephone: (310) 538 9530
- **Emergency telephone number:**
Medical Emergency Telephone : CHEMTREC® 1 (800) 424 9300
Transportation Emergency Telephone : CHEMTREC® 1 (800) 424 9300

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Repr. 1B H360 May damage fertility or the unborn child.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS07



GHS08

- **Signal word** Danger

- **Hazard statements**

Causes skin irritation.

Causes serious eye irritation.

May damage fertility or the unborn child.

- **Precautionary statements**

Wear protective gloves.

Wear 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 in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

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IF exposed or concerned: Get medical advice/attention.
 If skin irritation occurs: Get medical advice/attention.
 If eye irritation persists: Get medical advice/attention.
 If on skin: Wash with plenty of water.
 Take off contaminated clothing and wash it before reuse.
 Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:
NFPA ratings (scale 0 - 4)

HMS-ratings (scale 0 - 4)

HEALTH	*1	Health = *1
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

Hazard(s) not otherwise classified (HNOC): None known

* 3 Composition/information on ingredients

CAS: 7783-18-8	Ammonium thiosulphate	25-50%
CAS: 7732-18-5 RTECS: ZC 0110000	water, distilled, conductivity or of similar purity	25-50%

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous Components:

CAS: 7681-57-4	Sodium metabisulphite ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	2-12%
CAS: 64-19-7 RTECS: AF 1225000	Acetic Acid ⚠ Flam. Liq. 3, H226; ⚠ Skin Corr. 1A, H314	≤ 2.5%
CAS: 12179-04-3	disodium tetraborate pentahydrate ⚠ Repr. 1B, H360; Eye Irrit. 2B, H320	≤ 2.5%
CAS: 1310-73-2	Sodium Hydroxide ⚠ Skin Corr. 1A, H314	≤ 2.5%

* 4 First-aid measures

Description of first aid measures

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact:

Immediately wash skin with soap and plenty of water for at least 15 minutes.
 Remove contaminated clothing and wash before reuse.
 Get medical attention if symptoms occur.

After eye contact:

Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.

After swallowing: Drink milk or water. Induce vomiting. Obtain immediate medical attention.

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**
When heated to decomposition, emission of toxic fumes are possible.
- **Advice for firefighters**
- **Protective equipment:**
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.
- **Additional information** Evacuate personnel to a safe area. Keep personnel away from and upwind of fire.

* 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Ensure adequate ventilation.
Absorb with liquid-binding material (ie. sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
- **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.

* 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Avoid contact with skin, eyes and clothing
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
- **Information about protection against explosions and fires:** Keep protective respiratory device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool, dry place.
Store in a well ventilated place.
- **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 section 7.

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· **Control parameters**

· Components with occupational exposure limits:	
7681-57-4 Sodium metabisulphite	
REL	Long-term value: 5 mg/m ³
TLV	Long-term value: 5 mg/m ³
64-19-7 Acetic Acid	
REL	Long-term value: 25 mg/m ³ , 10 ppm
REL	Short-term value: 37 mg/m ³ , 15 ppm Long-term value: 25 mg/m ³ , 10 ppm
TLV	Short-term value: 37 mg/m ³ , 15 ppm Long-term value: 25 mg/m ³ , 10 ppm
12179-04-3 disodium tetraborate pentahydrate	
REL	Long-term value: 1 mg/m ³
TLV	Short-term value: 6* mg/m ³ Long-term value: 2* mg/m ³ *as inhalable fraction

· **Additional information:** The lists that were valid during the creation of this SDS were used as basis.

· **Exposure controls**

Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS. Where acceptable concentrations cannot be maintained by general mechanical ventilation, local exhaust ventilation is recommended.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.
 Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing and wash before reuse.
 Wash hands before breaks and at the end of work.
 Store protective clothing separately.
 Avoid contact with the eyes and skin.

· **Breathing equipment:**



NIOSH/OSHA or EN approved respiratory protection is recommended for use in airborne concentrations exceeding exposure limits.

· **Protection of hands:**



Protective gloves

· **Penetration time of glove material**

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

· **Eye protection:**



Tightly sealed goggles

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· **Body protection:**



Apron

* 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:

Liquid

Color:

Clear

· **Odor:**

Slightly Pungent

· **Odor threshold:**

Not determined.

· **pH-value:**

Not determined.

· **Change in condition**

Melting point/Melting range:

Not determined.

Boiling point/Boiling range:

100 °C (212 °F)

· **Flash point:**

Not applicable.

· **Flammability (solid, gaseous):**

Not applicable.

· **Ignition temperature:**

Decomposition temperature:

Not determined.

· **Auto igniting:**

Product is not self-igniting.

· **Danger of explosion:**

Product does not present an explosion hazard.

· **Explosion limits:**

Lower:

0.0 Vol %

Upper:

0.0 Vol %

· **Vapor pressure @ 20 °C (68 °F):**

23 hPa (17 mm Hg)

· **Density @ 20 °C (68 °F):**

1.319 g/cm³ (11.007 lbs/gal)

· **Relative density**

Not determined.

· **Vapor density**

Not determined.

· **Evaporation rate**

Not determined.

· **Solubility in / Miscibility with**

Water:

Soluble.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

Dynamic:

Not determined.

Kinematic:

Not determined.

· **Solvent content:**

Organic solvents:

1.7 %

Water:

49.7 %

VOC content:

1.7 %

Solids content:

48.5 %

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- **Other information** No further relevant information available.

* 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:**
When heated to decomposition, emission of toxic fumes are possible.
- **Possibility of hazardous reactions** With acids - sulfur dioxide gas. With alkalis - ammonia gas.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Strong acids and strong alkalis
- **Hazardous decomposition products:** Oxides of sulfur, carbon dioxide, carbon monoxide.

* 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

7681-57-4 Sodium metabisulphite

Inhalative	LC50/4 h	36 mg/l (Trout)
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64-19-7 Acetic Acid

Oral	LD50	3310 mg/kg (rat)
Dermal	LD50	1112 mg/kg (rabbit)
Inhalative	LC50/4 h	11.4 mg/l (rat)
	LC50/96 hours	>1000 mg/l (Trout)

12179-04-3 disodium tetraborate pentahydrate

Oral	LD50	3305 mg/kg (rat)
Inhalative	LC50/4 h	>2.0 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:**
Irritating effect.
Causes serious eye irritation.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients are listed.

- **NTP (National Toxicology Program)**

None of the ingredients are listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients are listed.

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12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

64-19-7 Acetic Acid

EC50 >300.82 mg/l (Water flea)

- **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:** Not known to be hazardous to water.
- **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. Observe all federal, state and local environmental regulations when disposing of this material.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

* 14 Transport information

- **UN-Number**
- **DOT, ADR, ADN, IMDG, IATA** Non-Regulated Material
- **UN proper shipping name**
- **DOT, ADR, ADN, IMDG, IATA** Non-Regulated Material
- **Transport hazard class(es)**
- **DOT, ADR, ADN, IMDG, IATA**
- **Class** Non-Regulated Material
- **Packing group**
- **DOT, ADR, IMDG, IATA** Non-Regulated Material
- **Environmental hazards:** Not applicable.
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":** -

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

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· Section 313 (Specific toxic chemical listings):		
None of the ingredients are listed.		
· TSCA (Toxic Substances Control Act):		
7783-18-8	Ammonium thiosulphate	
7681-57-4	Sodium metabisulphite	
64-19-7	Acetic Acid	
1310-73-2	Sodium Hydroxide	
527-07-1	Sodium Gluconate	
7732-18-5	water, distilled, conductivity or of similar purity	
· California Proposition 65		
· Chemicals known to cause cancer:		
None of the ingredients are listed.		
· Chemicals known to cause reproductive toxicity for females:		
None of the ingredients are listed.		
· Chemicals known to cause reproductive toxicity for males:		
None of the ingredients are listed.		
· Chemicals known to cause developmental toxicity:		
None of the ingredients are listed.		
· Carcinogenic categories		
· EPA (Environmental Protection Agency)		
12179-04-3	disodium tetraborate pentahydrate	I (oral)
· TLV (Threshold Limit Value established by ACGIH)		
7681-57-4	Sodium metabisulphite	A4
12179-04-3	disodium tetraborate pentahydrate	A4
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
None of the ingredients are listed.		

· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS07 GHS08

- **Signal word** Danger
- **Hazard statements**
Causes skin irritation.
Causes serious eye irritation.
May damage fertility or the unborn child.
- **Precautionary statements**
Wear protective gloves.
Wear eye protection / face protection.
Wash thoroughly after handling.
Obtain special instructions before use.

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Do not handle until all safety precautions have been read and understood.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

IF exposed or concerned: Get medical advice/attention.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

If on skin: Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· National regulations:

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

· State Right to Know

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CAS: 7783-18-8	Ammonium thiosulphate	25-50%
CAS: 7681-57-4	Sodium metabisulphite ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	2-12%
CAS: 64-19-7 RTECS: AF 1225000	Acetic Acid ⚠ Flam. Liq. 3, H226; ⚠ Skin Corr. 1A, H314	≤ 2.5%
CAS: 12179-04-3	disodium tetraborate pentahydrate ⚠ Repr. 1B, H360; Eye Irrit. 2B, H320	≤ 2.5%
CAS: 1310-73-2	Sodium Hydroxide ⚠ Skin Corr. 1A, H314	≤ 2.5%

All ingredients are listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· Date of preparation / last revision 05/27/2015 / 2

· Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
 ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 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
 Flam. Liq. 3: Flammable liquids, Hazard Category 3
 Acute Tox. 4: Acute toxicity, Hazard Category 4
 Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A

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Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B
Repr. 1B: Reproductive toxicity, Hazard Category 1B

· *** Data compared to the previous version altered.**

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