



Safety Data Sheet (SDS)

acc. to OSHA HazCom Standard 29 CFR 1910.1200(g) and Canada WHMIS 2015

Issue date 10/29/2018

Reviewed on 10/29/2018

* 1 Product and Company Identification

- **Product Identifier**
- **Trade Name: Conjugate**
- **Index number:**
5025C, 5029C, 5032C, 5035C, 5037C, 5038C, 5041C, 5042C, 5045C, 5047C, 5050C, 5051C, 5052C
- **Relevant identified uses of the substance or mixture and uses advised against:**
No further relevant information available.
- **Application of the substance / the mixture:** Kit Component
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**
Company, Manufacturer:
TECHLAB, Inc.
2001 Kraft Drive
Blacksburg, VA 24060, USA
- Distributed by:
Alere North America, LLC
30 South Keller Road
Orlando, Florida 32810, US
- **Emergency telephone number:** +(207)730-5750

2 Hazard(s) Identification

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



- Skin Sens. 1 H317 May cause an allergic skin reaction.
- **Hazard description:** Refer to the information found in this Safety Data Sheet.
- **Information concerning particular hazards for human and environment:**
Not applicable.
The product has to be labeled due to the calculation procedure of international guidelines.
- **Classification system:**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **Label elements:**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**



GHS07

- **Signal word:** Warning
- **Hazard-determining components of labeling:**
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

(Contd. on page 2)

Safety Data Sheet (SDS)

acc. to OSHA HazCom Standard 29 CFR 1910.1200(g) and Canada WHMIS 2015

Issue date 10/29/2018

Reviewed on 10/29/2018

Trade Name: Conjugate

• Hazard statements:

H317 May cause an allergic skin reaction.

• Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves.

P302+P352 If on skin: Wash with plenty of water.

P362+P364 Take off contaminated clothing and wash it before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

• Unknown acute toxicity:

This value refers to knowledge of known, established toxicological or ecotoxicological values.

1.4 % of the mixture consists of component(s) of unknown toxicity.

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

• Results of PBT and vPvB assessment

• PBT: Not applicable.



















• vPvB: Not applicable.

3 Composition/Information on ingredients:

• Chemical characterization: Mixtures

• Description: Mixture of substances listed below with non-hazardous additions.

• Dangerous Components:

| | | |
|--|--|--------|
| CAS: 55965-84-9 Index number: 613-167-00-5 | reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)  T R23/24/25;  C R34;  Xi R43;  N R50/53  Acute Tox. 3, H301;  Acute Tox. 3, H311;  Acute Tox. 3, H331;  Skin Corr. 1B, H314;  Aquatic Acute 1, H400;  Aquatic Chronic 1, H410;  Skin Sens. 1, H317 | 0.05% |
| CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5 RTECS: KQ 6300000 | Ethanol  Xi R36/37/38;  F R11  Flam. Liq. 2, H225;  Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320 | 0.104% |
| CAS: 1310-73-2 EINECS: 215-185-5 Index number: 011-002-00-6 | Sodium Hydroxide  C R35  Skin Corr. 1A, H314;  Acute Tox. 4, H302 | 0.203% |
| CAS: 69-65-8 EINECS: 200-711-8 | D-Mannitol Combustible Dust | 0.347% |
| CAS: 6138-23-4 EINECS: 202-739-6 | D-(+)-Trehalose dihydrate | .733% |

• Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First-Aid Measures

• Description of first aid measures

• After inhalation:

Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

(Contd. on page 3)

Safety Data Sheet (SDS)

acc. to OSHA HazCom Standard 29 CFR 1910.1200(g) and Canada WHMIS 2015

Issue date 10/29/2018

Reviewed on 10/29/2018

Trade Name: Conjugate

- **After skin contact:**
Remove contaminated clothes and shoes.
Immediately wash with water and soap and rinse thoroughly.
If skin irritation occurs, consult a doctor.
- **After eye contact:**
Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
Do not induce vomiting without medical advice.
Seek immediate medical advice.
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed:**
No further relevant information available.

5 Fire-Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray.
Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture:** No further relevant information available.
- **Advice for firefighters**
- **Special protective equipment for firefighters:** No special measures required.

6 Accidental Release Measures:

- **Personal precautions, protective equipment and emergency procedures:**
Do not breathe vapor.
Avoid contact with skin, eyes and clothing.
- **Environmental precautions:** Do not allow to enter sewers/surface or ground water.
- **Methods and material for containment and cleaning up:**
Dispose of the collected material according to regulations.
- **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
Avoid breathing fume/gas/mist/vapors/spray.
Wear protective equipment.
- **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:**
Protect from heat and direct sunlight.
Store in a cool, dry place.

(Contd. on page 4)

Safety Data Sheet (SDS)

acc. to OSHA HazCom Standard 29 CFR 1910.1200(g) and Canada WHMIS 2015

Issue date 10/29/2018

Reviewed on 10/29/2018

Trade Name: Conjugate

Store in the original container.

- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **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.
- **Control parameters:**
- **Components with occupational exposure limits:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.
- **Exposure controls:**
- **Personal protective equipment**
- **General protective and hygienic measures:**
Immediately remove all soiled and contaminated clothing and wash before reuse.
Wash hands before breaks and at the end of work.
- **Breathing equipment:** Not required.
- **Protection of hands:**



Protective gloves

- **Material of gloves:**
Nitrile rubber, NBR
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.
- **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:**



Safety goggles

- **Body protection:**



Protective work clothing

(Contd. on page 5)

Safety Data Sheet (SDS)

acc. to OSHA HazCom Standard 29 CFR 1910.1200(g) and Canada WHMIS 2015

Issue date 10/29/2018

Reviewed on 10/29/2018

Trade Name: Conjugate

9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form: Liquid

Color: Red

· **pH-value @ 20 °C (68 °F):** 7.5-7.8

· **Change in condition**

Melting point/Melting range: Not determined.

Boiling point/Boiling range: Not determined.

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** Not determined.

· **Ignition temperature:** Not applicable

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not self-igniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

Lower: Not determined.

Upper: Not determined.

· **Vapor pressure:** Not applicable.

· **Density:**

Relative density: Not determined.

Vapor density: Not applicable.

Evaporation rate: Not applicable.

· **Solubility in / Miscibility with:**

Water: Miscible

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

· **Viscosity:**

Dynamic: Not applicable.

Kinematic: Not applicable.

· **Solvent content:**

Organic solvents: 0.2 %

Solids content: 0.0 %

· **Other information:** No further relevant information available.

10 Stability and reactivity

· **Reactivity:** Stable under normal conditions.

· **Chemical stability:** Stable under normal conditions.

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **Possibility of hazardous reactions:** No dangerous reactions known.

(Contd. on page 6)

Safety Data Sheet (SDS)

acc. to OSHA HazCom Standard 29 CFR 1910.1200(g) and Canada WHMIS 2015

Issue date 10/29/2018

Reviewed on 10/29/2018

Trade Name: Conjugate

- **Conditions to avoid:**
Incompatibilities, flames, ignition sources.
High temperatures.
Keep out of direct sunlight.
- **Incompatible materials:** Strong acids, strong bases, strong oxidizing agents and strong reducing agents.
- **Hazardous decomposition products:** Carbon oxides

11 Toxicological information

- **Information on toxicological effects:**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:** No data available.
- **Primary irritant effect:**
- **On the skin:**
May be irritating.
May cause an allergic skin reaction.
- **On the eye:** May be irritating.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

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

None of the ingredients are 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:**
Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.
- **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:**
Observe all federal, state and local environmental regulations when disposing of this material.
- **Uncleaned packaging**
- **Recommendation:** Empty containers are consider hazardous.

(Contd. on page 7)

Safety Data Sheet (SDS)

acc. to OSHA HazCom Standard 29 CFR 1910.1200(g) and Canada WHMIS 2015

Issue date 10/29/2018

Reviewed on 10/29/2018

Trade Name: Conjugate

14 Transport information

- **UN-Number:**
- **ADR/ADN, ADN, IMDG, IATA** Non-Regulated Material
- **UN proper shipping name:**
- **ADR/ADN, ADN, IMDG, IATA** Non-Regulated Material
- **Transport hazard class(es):**
- **ADR/ADN, ADN, IMDG, IATA**
- **Class:** Non-Regulated Material
- **Packing group:**
- **ADR/ADN, IMDG, IATA** Non-Regulated Material
- **Environmental hazards:** Not applicable.
- **Special precautions for user:** Not applicable.
- **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable.
- **UN "Model Regulation":** Non-Regulated Material

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
- **SARA (Superfund Amendments and Reauthorization):**

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

None of the ingredients are listed.

• **Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

• **TSCA (Toxic Substances Control Act):**

9048-46-8 Albumins, bovine blood serum

69-65-8 D-Mannitol

64-17-5 Ethanol

1310-73-2 Sodium Hydroxide

7585-39-9 cycloheptapentose

• **TSCA new (21st Century Act) (Substances not listed)**

6138-23-4 D-(+)-Trehalose dihydrate

55965-84-9 reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

• **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:**

64-17-5 Ethanol

(Contd. on page 8)

Safety Data Sheet (SDS)

acc. to OSHA HazCom Standard 29 CFR 1910.1200(g) and Canada WHMIS 2015

Issue date 10/29/2018

Reviewed on 10/29/2018

Trade Name: Conjugate

| | | |
|--|---|----------------|
| • New Jersey Right-to-Know List: | | |
| 64-17-5 | Ethanol | |
| 1310-73-2 | Sodium Hydroxide | |
| • New Jersey Special Hazardous Substance List: | | |
| 64-17-5 | Ethanol | CA, MU, TE, F3 |
| 1310-73-2 | Sodium Hydroxide | CO, R1 |
| • Pennsylvania Right-to-Know List: | | |
| 64-17-5 | Ethanol | |
| 1310-73-2 | Sodium Hydroxide | |
| • Pennsylvania Special Hazardous Substance List: | | |
| 1310-73-2 | Sodium Hydroxide | E |
| • Carcinogenic categories: | | |
| • EPA (Environmental Protection Agency): | | |
| None of the ingredients are listed. | | |
| • TLV (Threshold Limit Value established by ACGIH): | | |
| 64-17-5 | Ethanol | A3 |
| • NIOSH-Ca (National Institute for Occupational Safety and Health): | | |
| None of the ingredients are listed. | | |
| • Canadian substance listings: | | |
| • Canadian Domestic Substances List (DSL): | | |
| 9048-46-8 | Albumins, bovine blood serum | |
| 69-65-8 | D-Mannitol | |
| 64-17-5 | Ethanol | |
| 1310-73-2 | Sodium Hydroxide | |
| 7585-39-9 | cycloheptapentylol | |
| 55965-84-9 | reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | |
| • Canadian Ingredient Disclosure list (limit 0.1%): | | |
| 64-17-5 | Ethanol | |
| • Canadian Ingredient Disclosure list (limit 1%): | | |
| 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

• Signal word: Warning

(Contd. on page 9)

Safety Data Sheet (SDS)

acc. to OSHA HazCom Standard 29 CFR 1910.1200(g) and Canada WHMIS 2015

Issue date 10/29/2018

Reviewed on 10/29/2018

Trade Name: Conjugate

• **Hazard-determining components of labeling:**

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

• **Hazard statements:**

H317 May cause an allergic skin reaction.

• **Precautionary statements:**

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves.

P302+P352 If on skin: Wash with plenty of water.

P362+P364 Take off contaminated clothing and wash it before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

• **National regulations:**

None of the 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.

• **Relevant phrases:**

H225 Highly flammable liquid and vapor.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H320 Causes eye irritation.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

R11 Highly flammable.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R34 Causes burns.

R35 Causes severe burns.

R36/37/38 Irritating to eyes, respiratory system and skin.

R43 May cause sensitisation by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

• **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

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

(Contd. on page 10)



Safety Data Sheet (SDS)

acc. to OSHA HazCom Standard 29 CFR 1910.1200(g) and Canada WHMIS 2015

Issue date 10/29/2018

Reviewed on 10/29/2018

Trade Name: Conjugate

ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
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 and Health
OSHA: Occupational Safety & Health Administration
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B
Skin Sens. 1: Skin sensitisation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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

© 2018 TECHLAB, Inc. All Rights Reserved

The TECHLAB Logo and TECHLAB are trademarks of TECHLAB, Inc., under license.

The Alere Logo is a trademark of the Abbott group of companies.