



SAFETY DATA SHEET (SDS)

SECTION 1 PRODUCT AND MANUFACTURER IDENTIFICATION

GHS Product Identifier

Product Trade Name: Chemsolve C (FG)

Alternative Brand Names: H25 Chemsolve C (FG)

Synonyms: Water based degreaser & concentrated general-purpose cleaner.
(Food Grade)

GHS Manufacture Information

Manufacturer: Chemical Techniques
12 Sophia Street
West Turffontein
Johannesburg
South Africa

Telephone Number: +2711 680 2516

Fax Number: +2711 680 2533

Emergency Contact: +2783 406 1374

Technical Contact: +2783 297 1617

E-mail: info@cemtec.co.za

GHS Product Usage Info

Recommended use: Used as an all in one, multi-functional degreaser and general-purpose cleaner in food sensitive areas.

Restrictions on use: No restrictions applicable if used for intended purpose / application.

Product Dilution range: Refer to TDS

GHS Product Usage Info

Issue Date: 01 May 2023

SDS Revision: Revision 5

SDS Revision Date: 01 May 2023

GHS SDS Compliance:

SANS 10234:2019 – (GHS) Globally Harmonized System of classification and labeling of chemicals
SANS 11014 (2010) - Safety data sheet for chemical products — Content and order of sections.

Certified: SANS 1828 (FOOD GRADE)

Compliant: HACCP / ISO 22 000 SYSTEMS

Additional Information:

This Safety Data Sheet (SDS) replaces the 16 point Material Safety Data Sheet (MSDS) according to **SANS 11014 (2010)** - Safety data sheet for chemical products — Content and order of sections.

SECTION 2 HAZARD IDENTIFICATION

GHS Hazards In accordance with PHYSICAL, HEALTH and ENVIRONMENTAL HAZARDS:

| GHS Classification: | Hazard | Category/Class |
|----------------------------|-----------------------|-----------------------|
| Physical Hazards: | Miscellaneous | Class 9 |
| Health Hazards: | Acute Toxicity (Oral) | 5 |
| | Skin Irritation | 3 |
| | Eye Irritation | 2B |

Environmental Hazards: N/a

GHS Labelling Elements
Hazard Pictograms:



GHS Signal Word: Warning

GHS Hazards: H303 : May be harmful if swallowed.
H317 : May cause an allergic skin reaction.
H320 : Causes eye irritation.

GHS Precautionary Statements:

P101 : If medical advice is needed, have product container or label at hand.
P202 : Do not handle until all safety precautions have been read and understood.
P270 : Do not eat, drink or smoke when using this product.
P262 : Do not get in eyes, on skin or on clothing.
P264 : Wash hands thoroughly after handling.

GHS Response Statements:

P304+P340 : IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P301+330+331+313 : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting, **get medical attention.**
P305+351+338+313 : IF IN EYES: Rinse cautiously with water for several minutes, remove contact lenses, if present and easy to do. Continue rinsing. **Get medical attention.**
P337+313 : If eye irritation persists, **get medical attention.**
P302+353+313 : IF ON SKIN: Rinse skin with water.
P332+313 : If skin irritation occurs, **get medical attention**

GHS Handling and Storage
Precautionary Statements

P102 : Keep out of reach of children.
P103 : Read label before use.
P404+P405 : Store in a closed container. Store locked up.
P235+402+403+410 : Keep cool. Store in a dry place. Store in a well-ventilated place. Protect from sunlight.
P280 : Wear protective gloves/protective clothing/eye protection/face protection.

GHS Disposal Precautionary
Statements:

P501 : Dispose of contents/container in accordance to local, regional, national or international regulations.

Other Hazards:
Additional Information:

None known.
Do not drink / ingest, this product contains 2-Butoxyethanol.



SAFETY DATA SHEET (SDS)

SECTION 3 COMPOSITION / INFORMATION OF INGREDIENTS

Physical State of Product: Liquid
 Substance / Mixture: Mixture
 Blend Type: Proprietary Blend
 (Proprietary Blend / Special Blend /
 Raw material / Other)

Ingredients contributing to hazard:

| Name | Cas No: | EC No: | Content % |
|--|------------|-----------|-----------|
| Alkyl benzenesulphonic acid (neutralized) | 68584-22-5 | 270-115-0 | < 10% |
| Eye irritant ,2B (H320) Acute tox oral, 5 (H303) | | | |
| 2-Butoxyethanol | 111-76-2 | 203-905-0 | < 10% |
| Flam liquid, 4 (H227) Acute tox oral, 4 (H320)+(H332)+(H312) Eye irritation, 2A (H319)+(H315) | | | |
| Secondary alcohol ethoxylate | 84133-50-6 | 617-534-0 | < 10% |
| Acute tox oral, 4 (H302) Eye damage, 1 (H318) Skin irritation, 2 (H316) | | | |
| Balance : aqua + proprietary and / or other substance not classified under GHS | | | |

Additional Information: Please note data are typical of the product and not a specification or a full composition. The risk profile may change if this product is mixed with other compounds or as a blend within other components. Revision of hazardous components based on **SANS 10234:2019**

SECTION 4 FIRST-AID MEASURES

In case of eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, **get medical attention.**

In case of skin contact: Rinse with water if required, if skin irritation occurs **get medical attention.**

If swallowed: Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. **Get medical attention.**

If inhaled: Remove to fresh air. Treat symptomatically. **Get medical attention** if symptoms occur.

Protection of first-aiders: If potential for exposure exists refer to **Section 8** for specific personal protective equipment.

Notes to physician: Treat symptomatically.

Delayed symptoms: None reported. Should the patient experience any delayed symptoms, immediately consult physician.

Most important symptoms and effects, both acute and delayed: **Refer to Section 11** for more detailed information on health effects and symptoms.

Additional Information: Affected person should never be left unattended. Never give anything by mouth or induce vomiting to an unconscious person. Treatment of exposure should be directed at the control of the symptoms and the clinical condition of the patient. Depending on the risk profile of the product and the patient the symptoms may re-occur and/or change over time. In that event have the patient consult a physician again.

SECTION 5 FIREFIGHTING MEASURES

Suitable extinguishing media: Dry powder, CO2, Water.

Unsuitable extinguishing media: None known.

Specific hazards during firefighting: None known.

Hazardous combustion products: None known.

Special protective equipment for fire-fighters: Use personal protective equipment. Refer to section 8 – Exposure Controls / Personal Protection.

Additional Information: Collect contaminated extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Clean up method: Dry sand. Discharge in accordance with local regulations.
 FOR SMALL LIQUID SPILLS (< 1 drum), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.
 FOR LARGE LIQUID SPILLS (> 1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

Environmental precaution: Do not discharge large undiluted or un-treated volumes into sewers or aquatic environment.

Personal precautions and protective equipment and emergency procedures: No additional PPE specified, Refer to **Section 8 - GHS personal protective equipment**. Site emergency procedure and evacuation plan as implemented to be followed. Ensure compliance as directed by safety officer / marshals. Adhere to local government regulations

Additional Information: In the event of an accidental release or uncontrolled spillage, consult a licensed/certified waste management company.

SAFETY DATA SHEET (SDS)

SECTION 7 HANDLING & STORAGE

GHS Handling and storage measures:

P102 : Keep out of reach of children.
 P103 : Read label before use.
 P404+P405 : Store in a closed container. Store locked up.
 P235+402+403+410 : Keep cool. Store in a dry place. Store in a well-ventilated place.
 Protect from sunlight.
 P281 : Use personal protective equipment as required.

Incompatibilities: None known.

Additional Information: Only trained and competent users should store and handle this product. Do not remove label. Un-ideal storage conditions may affect product characteristics, shelf life & performance.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredients with workplace control parameters:

None specified.

Engineering measures:

None specified.

Personal protective equipment:

Goggles, Gloves, Mask.

GHS Personal protective equipment pictograms:



Additional Information:

Only trained and competent users should store and handle this product.
 User should be informed of any additional requirements as set out in the company's Health & Safety Policy, including but not limited to Standard Operating Procedures when using this product.



SAFETY DATA SHEET (SDS)

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------------|------------------------------|
| Appearance: | Non viscous liquid |
| Color: | Amber - clear |
| Odor / Smell: | Solvent ethylene |
| Other characteristics: | N/a |
| PH as supplied: | 10.5 – 11.5 |
| PH @ 1% v/water: | 8.5 – 9.5 |
| Boiling Point range °C: | > 100 °C |
| Melting Point Range °C: | N/a |
| Viscosity @ 25 °C CPS: | 4.0 (LVT Spindle 1 speed 30) |
| Flashpoint °C: | N/a |
| Auto Ignition Temp °C: | Not tested |
| Explosion limits in air %: | Not tested |
| Vapor pressure @ 20 °C: | Not tested |
| Relative Density - (SG/SD): | 1 – 1.05 |
| Soluble in water: | Yes |
| Soluble in other: | N/a |
| Decomposition Temp: | Not tested |

Comments: N/a.

Additional Information: This data is typical for the product and not a specification.

SECTION 10 STABILITY AND REACTIVITY

| | |
|--------------------------------------|---------------------------------------|
| Chemical Stability: | Stable under normal cool conditions. |
| Possibility of a hazardous reaction: | None known. |
| Conditions to avoid: | None known. |
| Incompatible materials: | Avoid prolonged contact on aluminium. |
| Hazardous decomposition products: | None known. |
| Additional Information: | N/a. |



SAFETY DATA SHEET (SDS)

SECTION 11 TOXICOLOGICAL INFORMATION / HEALTH EFFECTS

| | |
|---|---|
| Inhalation: | May cause shortness of breath. |
| Skin contact: | Dry skin, possible skin irritation and redness. |
| Eye contact: | Red eye, irritation, itchy, discomfort, pain. |
| Ingestion: | Short term stomach cramping, discomfort / pain including nausea, vomiting or diarrhea. |
| Likely routes of exposure: | Inhalation, Skin contact, Eye contact, Ingestion. |
| Immediate and specific effects including symptoms: | Shortness of breath / dry skin, possible skin irritation and redness / burning eyes / abdominal discomfort / pain, nausea, vomiting or diarrhea. In case of ingestion seek medical attention and monitor patient for any additional symptoms. |
| Delayed effects: | None reported. |
| Chronic effects from short and long term exposure: | None reported. |
| Numerical measurement of toxicity: | Lethal Dose (LD50) / Lethal Concentrate (LC50) not tested or verified. No animal testing conducted on this product. |
| Additional Information: | Should the patient experience any delayed symptoms, immediately consult physician. |

SECTION 12 ECOLOGICAL INFORMATION

| | |
|------------------------------------|--|
| Biodegradability: | Contains readily biodegradable ingredients > 70% in 28 day. This product can be successfully bio-remediated. |
| Eco toxicity: | Non-toxic. |
| Bio accumulative potential: | Not likely. |
| Mobility in soil: | Not tested. |
| Other adverse effects: | None experienced or reported. |
| Additional Information: | Do not discharge large undiluted or un-treated volumes into sewers or aquatic environment. |

SECTION 13 DISPOSAL CONSIDERATION

| | |
|--------------------------------|---|
| GHS Disposal Measures: | In accordance with local regulations. In the event that disposal of material is conducted by a third party please ensure that the service provider is authorized and reputable. Please contact the manufacturer for additional information if required. |
| Material Disposal | Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. |
| Container Disposal | Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. Refer to Section 7 before handling the product or containers. Residues may cause an additional hazard. Do not puncture, cut or weld unclean drums. Send to drum recoverer or metal reclaimer. |
| Local Legislation | Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with. |
| Additional Information: | N/a |



SECTION 14 TRANSPORT INFORMATION

UN Number: N/a

Proper Shipping Name: Non allocated

Hazard Class: 9

Packing Group: III

Transport Hazard Pictogram:



Hazard Description: Low Hazard – Will cause slippery spill

Main Hazardous Compound: 2-Butoxyethanol

Marine Pollutant: No – Refer to Section 12 – Ecological Information.

Blend Type: Proprietary Blend
(Proprietary Blend / Special Blend / Raw material / Other)

Reference: Transport of dangerous goods declaration.

Classification Information: Shipping and transporting of hazardous chemical(s) by road, air, rail, or sea.

| | UN Number | Name | Cas No | Caution | Class | Packing Group |
|---------------|-----------|-----------------|----------|---------|-------|---------------|
| US DOT | 1993 | 2-Butoxyethanol | 111-76-2 | N/a | 9 | III |
| IMDG | 1993 | 2-Butoxyethanol | 111-76-2 | N/a | 9 | III |
| IATA / ICAO | 1993 | 2-Butoxyethanol | 111-76-2 | N/a | 9 | III |
| ADR /RID/ AND | 1993 | 2-Butoxyethanol | 111-76-2 | N/a | 9 | III |

Special Precautions: N/a – Refer to Section 7 – Handling and Storage.

Additional Information: Liquid propriety blend, may cause slippery spill.

Transportation - In accordance to applicable regional, national, and local laws and regulations below:

- National Road Traffic Act 93 of 1996 and its amendments.
- SANS 10231 – Transportation of Dangerous Goods – Operational Requirements.
- SANS 10232.1 – Transportation of Dangerous Goods – Emergency Information Systems : Part 1 Emergency Information System for Road Transportation.

SECTION 15 REGULATORY INFORMATION

OHS Act: Occupational Health and Safety Act, 85 of 1993 as amended: Globally Harmonized System (GHS) for classification and labelling of hazardous chemical, implementation.

GHS Classification and Labelling Specification:

SANS 10234-A (200P8) – List of classification and labelling of chemicals in accordance with the Globally Harmonized System.

GHS SDS Content:

SANS 11014:2010 - Safety data sheet for chemical products - Content and order of sections.

Safety Regulations:

As per local government regulations / National OHS compliance also Refer to Section 2 / Section 11

Health Regulations:

As per local government regulations / National OHS compliance also Refer to Section 2 / Section 11

Environmental Regulations:

As per local government regulations / National OHS compliance also Refer to Section 12 / Section 13

Additional Information:

Product to be used in accordance with local government regulations in compliance with the Occupational health and safety act. Additional risk assessments may be conducted as and when required.

SECTION 16 OTHER INFORMATION

General info: Personnel using this product must be trained and advised on the best, safest and most effective means of application.

GHS Technical Data Sheet:

Refer to Chemsolve C (FG) Technical Data Sheet for usage instructions.

GHS Label Information:

Refer to Chemsolve C (FG) Label for GHS label information.

GHS Safety Data Sheet (SDS) Control Information

Issue Date: 01 May 2023

SDS Revision: Revision 5

SDS Revision Date: 01 May 2023

GHS SDS Compliance:

SANS 10234:2019 – (GHS) Globally Harmonized System of classification and labeling of chemicals
SANS 11014 (2010) - Safety data sheet for chemical products — Content and order of sections.

Prepared and approved by:

Riaan Dippenaar

Company:

Chemical Techniques

Disclaimer:

All information is provided in good faith and as accurate as possible. Chemical Techniques will not accept any liability pertaining to the use of its products, as it is up to the end user “consumer” to determine the correct and safe use of this product. Kindly also consult our TDS prior to using this product or kindly contact us for additional technical advice.