

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY
1.1 Product Identifier

Product Name: **SurfiSol 315**
 Chemical Family: Proprietary Complex Mixture/ Preparation
 CAS Number: N/Ap

1.2 Relevant Identified Uses

Product Intended Uses: Multi-Purpose Industrial Cleaning Concentrate

1.3 Supplier Details

Name & Address: Chinook Chemical Corp.
 Woodgate I, Suite 205
 1121 E Southeast Loop 323 | Tyler, TX 75703

1.4 Emergency Telephone: 1-587-318-1244 (M-F, 8am-5pm, MST)
Information: 1-833-537-6662

SDS Contact: HSE@10FOLDGroupInc.com

SECTION 2: HAZARD IDENTIFICATION
2.1 Substance/Mixture Classification

Hazard Classification: Serious Eye Irritation/Damage (Category 2B)

2.2 Label Elements

Hazard Pictogram(s): Not applicable.
 Signal Word: WARNING
 Hazard Statement(s): Causes eye irritation.

Precautionary Statement(s)

Prevention: If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.

Do not handle until all safety precautions have been read and understood. Wash hands thoroughly after handling. Wear protective gloves, eye, and face protection.

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do – continue rinsing. IF EYE IRRITATION PERSISTS: Get medical advice/attention.

Storage: Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents/container to an approved waste disposal plant.

2.3 Other Hazards

Other Hazard Classification: No hazards known.

SECTION 3: COMPOSITION/INGREDIENT INFORMATION
3.1 Substances

Ingredient(s)	W/W%	CAS No.
Alkyl Esters*	0.1 – 0.5	Proprietary*
Aminopolycarboxylic Acid*	0.1 – 0.5	Proprietary*
Glycol Ether*	1.5 – 2.5	Proprietary*
Ethoxylated Alcohol*	5 – 7	68991-48-0
Alkalide Hydroxide*	0.05 – 0.1	Proprietary*
Mineral Salt of organic acid*	0.1 – 0.5	Proprietary*

*HMIRA Registry Number: 03344127 - Filing Date 2019-10-02

SECTION 4: FIRST-AID MEASURES
4.1 Description of First Aid Measures

Eye Contact:	Check for and remove any contact lenses. Do not rub eyes. Immediately flush with warm running water, holding the eyelids apart and occasionally lifting the upper and lower eyelids, for 15 minutes. Call a physician if irritation develops.
Skin Contact:	Remove contaminated clothing and shoes, wash before reuse. Wash affected skin with soap and water or use a recognized skin cleanser. See physician if irritation develops.
Inhalation:	Rinse mouths with water and drink 1 glass of water. Do <u>NOT</u> induce vomiting. Consult physician if symptoms develop or persist.
Ingestion:	No toxic effect is expected. Remove the affected victim to fresh air. If symptoms persist, obtain medical attention.
First Aid Protection:	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most Important Symptoms & Effects (Acute and Delayed)

Eye Contact:	Causes eye irritation.
Skin Contact:	No specific data.
Inhalation:	No specific data.
Ingestion:	No specific data.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

Physician Notes:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific Treatments:	No specific treatment.

SECTION 5: FIRE-FIGHTING MEASURES
5.1 Extinguishing Media

Suitable Media: Extinguish preferably with water or dry foam.
 Unsuitable Media: Not applicable.

5.2 Special Hazards from Substance/Mixture

Hazards from substance: A slip hazards.
 Hazardous Combustion: No specific data.
 Products:

5.3 Advice for Firefighters

Special Protective Actions: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special Protective Equipment: No specific data.

SECTION 6: ACCIDENTAL RELEASE MEASURES
6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Non-emergency Personnel: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Where appropriate protective equipment and clothing during clean-up. Do not touch damaged container or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillage cannot be contained. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Emergency Responders: Use personnel protection recommended in Section 8 to deal with the spillage. See also the information in "Non-emergency Personnel".

6.2 Environmental Precautions

Environmental Precautions: Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

6.3 Methods and Materials of Containment and Cleanup

Small Spill: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Large Spill: Stop the leak if possible. Block release of hazardous chemical from sewer or storm drains. Contain and clean-up the spill. Observe all personal protection equipment recommendations.

6.4 Reference to Other Sections

Additional Sections: See Section 7 for handling and storage information.
 See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: HANDLING AND STORAGE

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for Safe Handling

Protective Measures:	Do not get this material in contact with eyes. Provide adequate ventilation. Where appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid released to the environment. Do not empty into drains.
General Occupational Hygiene Advice:	Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for Safe Storage and Incompatibilities

Safe Storage:	Store in a cool, dry, well-ventilated place. Do not store and transport with oxidizers etc. Keep container tightly closed when not in use. Storage Temperature: $\leq 50^{\circ}\text{C}$
Incompatibilities:	Oxidizing agents, strong acids, reducing agents.

7.3 Specific End Use(s)

Recommendations:	When product is used in confined space, the use of proper ventilation is required.
Industrial Sector Specific Solutions:	Not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control Parameters

Occupational Exposure Limits: Recommended	Occupational limit values are not available for this product.
Monitoring Procedures:	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
DNELs/DMELs:	No DNELs/DMELs available.

PNECs:	No PNECs available.
8.2 Exposure Controls	
Engineering Controls:	Guarantee sufficient ventilation during and after use, to prevent vapor accumulation.
<u>Individual Protection Measures</u>	
Hygiene Measures:	Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/Face Protection:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases, or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields or goggles.
<u>Skin Protection</u>	
Protective Handwear:	Chemical-resistant, impervious gloves recommended to prevent drying of hands. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body Protection:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other Skin Protection:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory Protection:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Environmental Exposure Controls:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on Basic Physical and Chemical Properties**Appearance

Physical State: Liquid
Color: Light Green
Odor: Apple
Odor Threshold: N/E 11.5 –
pH Factor: 12.2
Melting/Freezing Point: 0°C (32°F)
Boiling Point (°C): 85°C (185°F)
Flash Point: N/Ap
Evaporation Rate: N/E
Flammability: N/Av
Explosive Limits: None
Vapor Pressure: N/Av
Vapor Density (air = 1): N/Av
Relative Density: 1.004 – 1.017
Solubility(ies): N/Av
Partition Coefficient: N/Av
Auto-ignition Temperature: N/E
Decomposition Temp.: N/Av
Viscosity: N/E
Explosive Properties: N/E
Oxidizing Properties: None

9.2 Other Information

Solubility in Water: Soluble
Pour Point: N/Av

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: The product is stable and non-reactive under normal conditions of use, storage, and transport.

10.2 Chemical Stability: Stable under normal conditions.

10.3 Possibility of Hazardous Reactions: Can react if in contact with strong oxidizing agents.

10.4 Conditions to Avoid: Avoid contact with strong oxidizing agents, strong reducing acids.

10.5 Incompatible Materials: Strong oxidizing materials, strong reducing agents.

10.6 Hazardous Decomposition Product(s): Carbon monoxide, Carbon dioxide, hydrogen chloride, oxides of nitrogen, methyl chloride when heated.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Toxicological Effects Information**Acute Toxicity

Conclusion/Summary: LD 50 (Oral, rat) \geq 25,000 mg / kg
Alcohol ethylate LD 50 (Oral, rat) \geq 2,000 mg / kg

Irritation/Corrosion

Conclusion/Summary: Irritant to eyes.

Sensitization

Conclusion/Summary: Is not a skin sensitizer.

Mutagenicity

Conclusion/Summary: No adverse mutagenic effects are anticipated.

Carcinogenicity

Conclusion/Summary: The ingredients of this product are not classed as carcinogenic by ACGIH, IARC, OSHA.

Reproductive Toxicity

Conclusion/Summary: No adverse reproductive effects are anticipated.

Teratogenicity

Conclusion/Summary: No adverse teratogenic effects are anticipated.

Specific Target Organ Toxicity – Single Exposure

Conclusion/Summary: Not available.

Specific Target Organ Toxicity – Single Exposure

Conclusion/Summary: Not available.

Aspiration Hazard

Conclusion/Summary: Not available.

Potential Acute Health Effects

Eye Contact: Cause eye irritation.

Inhalation: No specific data.

Skin Contact: No specific data.

Ingestion: No specific data.

Physical, Chemical, and toxicological Symptoms

Eye Contact: No specific data.

Inhalation: No specific data.

Skin Contact: No specific data.

Ingestion: No specific data.

Delayed and Immediate Effects and Chronic Effects from Short and Long-Term ExposureShort Term ExposurePotential Immediate

Effects: Not available.

Potential Delayed Effects: Not available

Other information: Not available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity:	96-hour LC50 (Tilapia Nilotica) = 160 mg/l
12.2 Persistence & Degradability:	Readily biodegradable per OECD 301 D, closed bottle test.
12.3 Bioaccumulative Potential:	Not Available.
12.4 Mobility in Soil:	Not Available.
12.5 PBT and vPvB Assessment:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
12.6 Other Adverse Effects:	No other adverse environmental effects are expected from this component.

SECTION 13: DISPOSAL CONSIDERATIONS

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste Treatment

Product

Disposal Methods: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous Waste: The waste code should be assigned in discussion between the user comma the producer and the waste disposal company.

Residual/Unused Waste: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material on its container must be disposed of in a safe manner.

Packaging

Disposal Methods: Empty container should be taken to an approved waste handling site for recycling or disposal period since empty containers may retain product residue, follow label warnings even after container is empty.

Special Precautions: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: TRANSPORT INFORMATION

The provided transportation classifications are for bulk shipments only and may not be representative of all package/shipment sizes.

		ADR	DOT	TDG	IMO/IMDG	ICAO/IATA Not
14.1	UN Number	Not Regulated.	Not Regulated.	Not Regulated.	Not Regulated.	Regulated.
14.2	UN Shipping Name	-	-	-	-	-
1	Transport Hazard Class(es)	-	-	-	-	-
14.4	Packaging Group	-	-	-	-	-
1	Environmental Hazards	No	No	No	No	No

14.6 Special User Precautions:

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Bulk Transportation:

According to Annex II of Marpol and the IBC Code: Not available.

SECTION 15: REGULATORY INFORMATION
15.1 Safety, Health & Environmental Regulations/Legislation
US Federal Regulations

This product contains materials that are "hazardous chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1010.1200.

USA TSCA

All chemicals listed.

US OSHA

This material is classified as a "Hazardous Chemical" under OSHA regulations (29 CFR 1910.1200).

SARA TITLE III

Sec. 302.

40 CFR 355 No extremely hazardous substances are present in this material.

Sec. 313.

40 CFR 372 This product does not contain any toxic chemicals subject to the reporting requirements of SARA (III) Section 313 of the Emergency Planning and Community Right-to-know Act.

Sec. 311 and 312.

40 CFR 370 According to the EPA Hazard Categories promulgated under Sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act (SARA), this product meets the following categories:

Immediate Hazard – Yes

Delayed Hazard – No

Fire Hazard – No

Pressure Hazard – No

Reactivity Hazard – No

Other Federal Regulations

Safe Drinking Water Act: Proposition 65 California Safer Water and Toxic Enforcement Act of 1986: This product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels under which would be subject to the proposition.

International Inventories

Canada: All components of this product comply with the inventory requirements administrated by the *Domestic Substances List (DSL)*.

Europe: European Inventory of Existing Commercial Chemical Substances (EINECS): All chemicals listed.

Canada Regulatory Information: **WHMIS Classification**: The product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains all the information required by the CPR.

15.2 Chemical Safety Assessment: No chemical safety assessment has been carried out for mixture by the supplier.

SECTION 16: OTHER INFORMATION

Abbreviations and Acronyms

ATE:	Acute Toxicity Estimate
CLP:	Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL:	Derived Minimal Effect Level
DNEL:	Derived No Effect Level
EUH Statement:	CLP-specific Hazard statement
PBT:	Persistent, Bioaccumulative and Toxic
PNEC:	Predicted No Effect Concentration
RRN:	REACH Registration Number
vPvB:	Very Persistent and Very Bioaccumulative

Procedure Used to Derive the Classification According to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Serious Eye Irritation/Damage (Category 2B)	On basis of test data.

Date of Issue/Revision: September 27, 2022

Replaces: April 18, 2022

Prepared By: Chinook Chemical Corp.

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

