1. IDENTIFICATION

Product Identifier
Product Name DUOTECH B3
Chemical Name Alkaline detergent solution

Recommended use of the chemical and restrictions on use
Recommended use Vehicle Wash
Restrictions on use For industrial use only

Supplier details West Penetone Inc. 11411-160 Street
Edmonton, AB,
T5M3T7
Tel: 780-454-3919

Emergency Telephone Number

(780) 454-3919 (Mon – Fri, 8 AM – 4:30 PM, Mountain time)

2. HAZARDS IDENTIFICATION

Classification

Corrosive to metals	Category 1

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

Label Elements

DANGER

Hazard Statements
May be corrosive to metals.
Causes severe skin burns and eye damage.
Causes serious eye damage.

Precautionary Statements - Prevention
Keep only in original container.
Do not breathe mists.
Wash face, hands, and any exposed skin thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements - Response
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water/shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor/physician.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. Immediately call a POISON CENTER or physician.
Absorb spillage to prevent material damage.

Precautionary Statements - Storage
Store locked up in a closed, corrosion resistant container.

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant according to local, provincial/federal regulations

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Sodium metasilicate	10213-79-3	10 – 30*
Tetrapotassium ethylenediamine-tetraacetate	5964-35-2	5 – 10*
potassium hydroxide	1310-73-2	0.5 – 1.5*

*Actual concentration is withheld as a trade secret

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting unless directed by medical personnel. Rinse mouth with water and drink 1 or 2 glasses of water and call a POISON CENTER or doctor/physician immediately.

Skin contact: Take off contaminated clothing and rinse skin with plenty of water. Get medical advice/attention. Wash any contaminated clothing before re-use.

Inhalation: If difficulties occur after mist/vapors/spray has been inhaled, remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician immediately.

Most important symptoms and effects, both acute and delayed.

Contact with eyes may cause serious irritation leading to discomfort or pain, redness, swelling, and blurred vision. Contact with skin may cause severe burns or irritation with local redness. Ingestion may lead to severe burns of the mouth, throat and digestive tract. Nausea, vomiting and perforation of internal organs may also occur after ingestion. If liquids or mist are inhaled, severe damage to the respiratory system may result.

Indication of any immediate medical attention and special treatment needed.

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media
None.

Specific hazards arising from the chemical
During fire, gases hazardous to health may be formed including oxides of carbon, nitrogen, and sulfur and other irritating gases.

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures
Use personal protective equipment.

Environmental Precautions
Avoid discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up.
Contain and solidify with inert absorbent materials. Keep in suitable, closed containers for disposal. Following product recovery, flush area with water. For large spills, stop flow of material, prevent product from entering drains, and pump off product where this is without risk and possible. Proceed as above.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Handling: Avoid contact with skin and eyes.

Conditions for safe storage, including any incompatibilities

Storage: Store away from incompatible materials. Keep from freezing

Incompatible Materials: Strong oxidizing agents and acids.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Only constituents with exposure limits are listed. Any constituent not listed has no known exposure limit.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium hydroxide CAS 1310-58-3	TWA: 2 mg/m^3	2 mg/m^3	2 mg/m^3

Appropriate engineering controls

Engineering Controls: Under the intended modes of use, exposure control measures are not required.

Individual protection measures, such as personal protective equipment

Eye/face Protection: Safety glasses with side shields or goggles. Use a face-shield where mode of handling increases risk of splashing.

Skin and body protection: Wear protective gloves and protective clothing.

Respiratory Protection: Wear respiratory protection if ventilation is inadequate.

General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice. Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:
Yellow liquid
ODOR:
none
ODOR THRESHOLD:
Not applicable
pH:
12.0– 14.0
MELTING POINT / FREEZING POINT:
Approx. 0ºC
BOILING POINT/BOILING RANGE:
Approx. 100ºC
FLASH POINT:
None
EVAPORATION RATE, water = 1
1
FLAMMABILITY (SOLID, GAS):
Not applicable
VAPOR PRESSURE, mm Hg AT 20ºC:
Not available
VAPOR DENSITY (Air = 1):
Not available
RELATIVE DENSITY AT 20ºC:
1.250 - 1.270
SOLUBILITY IN WATER:
Complete
PARTITION COEFFICIENT, N-OCTANOL/WATER:
Not available
AUTO-IGNITION TEMPERATURE:
None
DECOMPOSITION TEMPERATURE:
Not available
VISCOSITY:
Not available
FLAMMABLE LIMITS:
UPPER: Not applicable **LOWER:** Not applicable

10. STABILITY AND REACTIVITY

Reactivity
Stable under normal conditions of storage and use. Concentrated solutions of the product will react with aluminum, magnesium, zinc and other soft metal alloys with the generation of hydrogen.

Chemical Stability
Stable under normal conditions.

Possibility of hazardous reactions
Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to Avoid
Store away from incompatible materials. Keep from freezing.

Incompatible Materials
Strong oxidizing materials and acids.

Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition can lead to release of irritating gases and vapors.

11. TOXICOLOGICAL INFORMATION

Acute toxicity
ATE_{mix} – LD50 oral >2000 mg/kg (rat), LD50 dermal – available, LC50 inhalation - not available
Not classified, not an acutely toxic mixture.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Potassium hydroxide CAS 1310-58-3	330 mg/kg (rat)	Not listed	Not listed
Tetrapotassium ethylenediamine-tetraacetate CAS 5964-35-2	Not listed	Not listed	Not listed
Sodium metasilicate CAS 6834-92-0	1280 mg/kg (rat)	Not listed	Not listed

Information on likely sources of exposure

Ingestion	Can cause severe burns to mouth and throat if ingested.
Skin corrosion/irritation	Can cause severe skin burns or skin irritation.
Inhalation	If liquids or mist are inhaled, severe damage to the respiratory system may result.
Serious eye damage/irritation	Causes serious eye damage and permanent blindness.

Delayed and immediate effects and chronic effects from short and long-term exposure

Respiratory or skin sensitization	None known.
Germ cell mutagenicity	None known.
Carcinogenicity	None known.
Reproductive toxicity	None known.
STOT - single exposure	None known.
Aspiration Hazard	None known.

Symptoms related to the physical, chemical and toxicological characteristics.
Eye damage, skin burns or skin irritation.

12. ECOLOGICAL INFORMATION

Persistence and degradability
Expected to be inherently biodegradable

Bioaccumulative potential
No information available.

Mobility in soil
No information available

Other adverse effects
Do not release untreated into natural waters.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of in accordance with local regulations.

Contaminated Packaging Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

UN Number:	3266
UN Proper Shipping Name:	Corrosive Liquid, Basic, Inorganic N.O.S (sodium metasilicate)
Transport Hazard Class(es)	
Class:	TDG: 8 US DOT: 8 IMDG: 8
Label(s):	8
Packing Group:	III
Marine Pollutant:	No

Special precautions for user: None established

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not determined.

15. REGULATORY INFORMATION

Canada (DSL/NDSL)

All ingredients contained in this product are in compliance with the Canadian Environmental Protection Act and are listed on the DSL or are exempt.

United States (TSCA)

All ingredients contained in this product are listed on the TSCA inventory or are exempt.

16. OTHER INFORMATION

Preparation Date	May 19, 2023
Revision Date	July 10, 2025
Revision Note	Emergency contact information updated.

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, inform ation, and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet