ARDEX LABS.

Safety Data Sheet
Top Dog/CTA

SECTION 1: Identification

Product identifier

Product name	Top Dog/CTA
Product number	5225

Recommended use of the chemical and restrictions on use
Automotive cleaning product.

Supplier's details

Name	Ardex Labs.
Address	2050 Byberry Rd Philadelphia, PA 19116 United States of America
Telephone	2156980500
email	info@ardexlabs.com

Emergency phone number(s)

800-424-9300
CHEMTREC – TOLL FREE 24 HOUR EMERGENCY TELEPHONE NUMBER

SECTION 2: Hazard identification

Classification of the substance or mixture

GHS classification in accordance with OSHA (29 CFR 1910.1200)
- Eye damage/irritation (chapter 3.3), Cat. 1
- Skin corrosion/irritation (chapter 3.2), Cat. 1
- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3
- Corrosive to metals (chapter 2.16), Cat. 1

GHS label elements, including precautionary statements

Pictogram

Signal word **Danger**

Hazard statement(s)

H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness

Precautionary statement(s)

Prevention

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P271	Use only outdoors or in a well-ventilated area.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands and exposed skin thoroughly after handling.

Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363	Wash contaminated clothing before reuse.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310	Immediately call a POISON CENTER/doctor
P312	Call a POISON CENTER/doctor if you feel unwell.
P390	Absorb spillage to prevent material damage.

Storage

P403+P233	Store in a well ventilated place. Keep container tightly closed.
P234	Keep only in original container.
P406	Store in a corrosive resistant container with a resistant inner liner.
P405	Store locked up.

Disposal

P501	Dispose of contents/container to local, state, and federal reulations

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

Component	Concentration
Ethylenediamine Tetraacetic Acid, Tetrasodium Salt Dihydrate (CAS no.: 10378-23-1; EC no.: 200-573-9; Index no.: 607-428-00-2)	**< 3 % (Volume)**
CLASSIFICATIONS: Acute toxicity, oral (chapter 3.1), Cat. 4; Eye damage/irritation (chapter 3.3), Cat. 1. HAZARDS: H302 - Harmful if swallowed; H318 - Causes serious eye damage.	
Sodium hydroxide liquid (CAS no.: 1310-73-2; EC no.: 215-185-5; Index no.: 011-002-00-6)	**< 8 % (Volume)**
CLASSIFICATIONS: Skin corrosion/irritation (chapter 3.2), Cat. 1A. HAZARDS: H314 - Causes severe skin burns and eye damage.	
Sodium metasilicate (CAS no.: 6834-92-0; EC no.: 229-912-9; Index no.: 014-010-00-8)	**< 5 % (Volume)**
CLASSIFICATIONS: Skin corrosion/irritation (chapter 3.2), Cat. 1B; Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3; Corrosive to metals (chapter 2.16), Cat. 1. HAZARDS: H314 - Causes severe skin burns and eye damage; H335 - May cause respiratory irritation.	

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).
If inhaled	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.
In case of skin contact	Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
In case of eye contact	Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician. If vomiting occurs, keep head low so that stomach content does not enter lungs.
Personal protective equipment for first-aid responders	See section 8.

Most important symptoms/effects, acute and delayed
General: Symptoms of chemical burns may be delayed. Keep victim under observation
Inhalation: May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system
Skin Contact: Causes severe burns.
Eye Contact: Causes serious eye damage

Indication of immediate medical attention and special treatment needed, if necessary
No data available.

SECTION 5: Fire-fighting measures

Suitable extinguishing media
Use an extinguishing agent suitable for the surrounding fire.

Specific hazards arising from the chemical
Fire Hazard: Not considered flammable but may burn at high temperatures.
Explosion Hazard: Product is not explosive.
Reactivity: Hazardous reactions will not occur under normal conditions.

Special protective actions for fire-fighters
Precautionary Measures Fire: Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.
Firefighting Instructions: Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.
Hazardous Combustion Products: Carbon oxides (CO, CO2).

Further information
Firefighting Instructions: Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.
Hazardous Combustion Products: Carbon dioxide, carbon monoxide, sulfur oxides, phosphorous oxides, halogenated compounds

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures
General Measures: Avoid all contact with skin, eyes, or clothing. Avoid breathing (vapor, mist, spray).

6.1.1. For Non-Emergency Personnel
Protective Equipment: Use appropriate personal protection equipment (PPE).
Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel
Protective Equipment: Equip cleanup crew with proper protection.
Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions

Environmental precautions
May be harmful to the environment if released in large quantities. Avoid dispersal of spilled concentrate material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material in concentrate

Methods and materials for containment and cleaning up
For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

Reference to other sections
See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and storage

Precautions for safe handling
Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Conditions for safe storage, including any incompatibilities

Technical Measures: Comply with applicable regulations.
Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use.
Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.
Incompatible Materials: None classified.

Specific end use(s)
Automotive cleaning product

SECTION 8: Exposure controls/personal protection

Control parameters

CAS: 1310-73-2
Sodium hydroxide
Cal/OSHA: (C) 2 mg/m3 PEL inhalation; NIOSH: (C) 2 mg/m3 REL inhalation; OSHA: 2 mg/m3 PEL inhalation

Appropriate engineering controls
Appropriate Engineering Controls: Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

Individual protection measures, such as personal protective equipment (PPE)

Pictograms

Eye/face protection
Wear suitable chemical safety goggles or glasses.

Skin protection
Wear suitable chemically resistant gloves.

Body protection
Wear suitable clothing.

Respiratory protection
No data available.

Thermal hazards
No data available.

Environmental exposure controls
Do not allow the product to be released into the environment.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form	CLEAR, FREE-FLOWING LIQUID. Red.
Odor	Almond-like
Odor threshold	No data available.

pH	13.3
Melting point/freezing point	-10 DEG. C (18 DEG. F)
Initial boiling point and boiling range	105-112 C (221-231 F)
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability limits	No data available.
Vapor pressure	7.8 (@ 20 DEG. C.)
Vapor density	No data available.
Relative density	1-1.25 (@20DEG. C)
Solubility(ies)	Miscible
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

SECTION 10: Stability and reactivity

Reactivity
Hazardous reactions will not occur under normal conditions.

Chemical stability
Stable under recommended handling and storage conditions (see section 7).

Possibility of hazardous reactions
Hazardous polymerization will not occur.

Conditions to avoid
Direct sunlight. Extremely high or low temperatures. Incompatible materials.

Incompatible materials
Avoid strong oxidizers and strong acids and highly electrovalent metals (e.g. A1, Mg, Fe, etc.)

Hazardous decomposition products
Decomposition products may include the following materials: phosphorus oxides metal oxide/oxides. Toxic gases (such as Formic Acid and Carbon Monoxide)

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity
Ethylenediamine Tetraacetic Acid, Tetrasodium Salt Dihydrate
LD50 Oral - Rat - 630-1260 mg/kg

Sodium metasilicate
LD50 Oral - Rat - 1152-1349 mg/kg
Result: Remarks: Gastrointestinal:Ulceration or bleeding from stomach.

Sodium metasilicate
LC50 - Danio rerio (zebra fish) - 210 mg/l - 96hr

Skin corrosion/irritation
Sodium metasilicate
OECD Dermal - Rabbit - 4h
Result: Corrosive

Serious eye damage/irritation
No data available.

Respiratory or skin sensitization
Sodium metasilicate
OECD Inhalation - Mouse - in vivo assay
Result: Does not cause skin sensitation

Germ cell mutagenicity
No data available.

Carcinogenicity
No data available.

Reproductive toxicity
Sodium metasilicate
Oral - Rat
Result: Effects on Newborn: Stillbirth. Effects on Newborn: Live birth index (# fetuses per litter; measured after birth). Effects
on Newborn: Weaning or lactation index (e.g., # alive at weaning per # alive at day 4).

Summary of evaluation of the CMR properties
No data available.

STOT-single exposure
No data available.

STOT-repeated exposure
No data available.

Aspiration hazard
No data available.

Additional information
No data available.

SECTION 12: Ecological information

Toxicity
Sodium metasilicate
LC50 - Danio rerio (zebra fish) - 210 mg/l - 96hr

Persistence and degradability
No data available.

Bioaccumulative potential
No data available.

Mobility in soil

No data available.

Results of PBT and vPvB assessment
No data available.

Other adverse effects
No data available.

SECTION 13: Disposal considerations

Disposal of the product
Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Disposal of contaminated packaging
Do not reuse packaging. Dispose of packaging material in accordance with all local, regional, national, provincial, territorial and international regulations.

Waste treatment
No data available.

Sewage disposal
Do not allow product to enter drains or sewers

Other disposal recommendations
No data available.

SECTION 14: Transport information

UN Number	1760
UN Proper Shipping Name	Compounds, cleaning liquid (Containing Sodium Hydroxide and Sodium Metasilicate)
Transport hazard class(es)	8
Packing group	II

Environmental hazards
Corrosive

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
May be reclassified as a CONSUMER COMMODITY ORM-D
when shipped by ground in the US in containers not exceeding 38 ounces.

May be reclassified as a CONSUMER COMMODITY ORM-D
when shipped by vessel in the US in containers not exceeding 38 ounces.

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Pennsylvania Right To Know Components
Ethylenediaminetetraacetic acid tetrasodium salt dihydrate

Chemical name: Sodium hydroxide
CAS number: 1310-73-2

Disodium metasilicate (CAS: 6834-92-0)

New Jersey Right To Know Components
Ethylenediaminetetraacetic acid tetrasodium salt dihydrate

Common name: SODIUM HYDROXIDE
CAS number: 1310-73-2

Disodium metasilicate (CAS: 6834-92-0)

Massachusetts Right To Know Components
Chemical name: Sodium hydroxide
CAS number: 1310-73-2

SARA 313 Components
Acute health hazard

Pennsylvania Right To Know Components
Disodium metasilicate (CAS: 6834-92-0)

New Jersey Right To Know Components
Disodium metasilicate (CAS: 6834-92-0)

SECTION 16: Other information

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Other Information:
This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.
Party Responsible for the Preparation of This Document
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