

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 3/9/2017 Revision date: 3/19/2025 Supersedes: 1/8/2024 Version: 2.4

SECTION 1: Identification	
1.1. Identification	
Product form Trade name Product code	: Mixture : Advantage : 4624
1.2. Recommended use and restrictions on	use
Recommended use	: Heavy-duty detergent, Vehicle cleaning/vehicle care product
1.3. Supplier	
Synthetic Labs 24 Victory Lane Dracut, MA, 01826 United States T 800.255.4050 - F 978.957.5122 www.360carwashsolutions.com	
1.4. Emergency telephone number	
Emergency number	: 24 Hour Medical Emergency Number: 1-800-535-5053
SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mixt	ure
GHS US classification	
Skin corrosion/irritation Category 1A Serious eye damage/eye irritation Category 1	Causes severe skin burns and eye damage Causes serious eye damage
2.2. GHS Label elements, including precaut	tionary statements
GHS US labeling	
Hazard pictograms (GHS US)	
Signal word (GHS US) Hazard statements (GHS US)	DangerCauses severe skin burns and eye damage
Precautionary statements (GHS US)	 Causes serious eye damage Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands, forearms and face thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor. Specific treatment (see supplemental first aid instruction on this label). Wash contaminated clothing before reuse. Store locked up.

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Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Tetrasodium ethylenediaminetetraacetate	CAS-No.: 64-02-8	1 – 5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
Sodium hydroxide	CAS-No.: 1310-73-2	1 – 5	Acute Tox. 1 (Oral), H300 Skin Corr. 1, H314 Eye Dam. 1, H318

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures				
4.1. Description of first aid measures				
First-aid measures general First-aid measures after inhalation First-aid measures after skin contact	 Call a physician immediately. Remove person to fresh air and keep comfortable for breathing. Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately. 			
First-aid measures after eye contact First-aid measures after ingestion	 Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. Rinse mouth. Do not induce vomiting. Call a physician immediately. 			
4.2. Most important symptoms and effects (acute and delayed)				
Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion	: Burns. : Serious damage to eyes. : Burns.			
4.3. Immediate medical attention and special treatment, if necessary				

Treat symptomatically.

SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishing	ı media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
5.2. Specific hazards arising from the chemical		
Hazardous decomposition products in case of fire	: Toxic fumes may be released.	

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5.3. Special protective equipment an	d precautions for fire-fighters
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release n	neasures
6.1. Personal precautions, protective	e equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	 Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up		
Methods for cleaning up Other information	Take up liquid spill into absorbent material.Dispose of materials or solid residues at an authorized site.	
6.4. Reference to other sections		

For further information refer to section 13.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray. Wear personal protective equipment.
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including a	iny	/ incompatibilities
Storage conditions	:	Store locked up. Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Advantage		
No additional information available		
Tetrasodium ethylenediaminetetraacetate (64-02-8)		
No additional information available		
Sodium hydroxide (1310-73-2)		
USA - ACGIH - Occupational Exposure Limits		
Sodium hydroxide		

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Sodium hydroxide (1310-73-2)		
ACGIH OEL Ceiling	2 mg/m ³	
Remark (ACGIH)	URT, eye, & skin irr	
USA - OSHA - Occupational Exposure Limits		
Local name	Sodium hydroxide	
OSHA PEL (TWA) [1]	2 mg/m ³	
8.2. Appropriate engineering controls		
Appropriate engineering controls : Ensure good ventilation of the work station. Environmental exposure controls : Avoid release to the environment.		
8.3. Individual protection measures/Personal protective equipment		
Hand protection:		
Protective gloves		
Eye protection:		
Safety glasses		
Skin and body protection:		
Wear suitable protective clothing		
Respiratory protection:		
In case of insufficient ventilation, wear suitable respiratory equipment		

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Appearance Color Odor Odor threshold pH pH solution Melting point Freezing point	·· ·· ·· ·· ·· ··	Liquid Liquid. Violet Fresh No data available 13.5 13.5 – 14 Not applicable No data available
Flash point Relative evaporation rate (butyl acetate=1) Flammability (solid, gas) Vapor pressure Relative vapor density at 20°C Relative density Density	:	No data available No data available Not applicable. No data available No data available No data available 1.07 g/m ³

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Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity (dermal)	Not classified Not classified Not classified	
Tetrasodium ethylenediaminetetraacetate (64-02-8)		
LD50 oral rat	1780 – 2000 mg/kg (Rat, Male / female, Experimental value, Oral)	
ATE US (oral)	1780 mg/kg body weight	
Sodium hydroxide (1310-73-2)		
ATE US (oral)	1.111 mg/kg body weight	
	Causes severe skin burns. pH: 13.5	
Tetrasodium ethylenediaminetetraacetate (64-02-8)		
рН	11 (1 %)	

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Sodium hydroxide (1310-73-2)		
рН	14 (5 %)	
Serious eye damage/irritation	Causes serious eye damage. pH: 13.5	
Tetrasodium ethylenediaminetetraacetate (6	4-02-8)	
рН	11 (1 %)	
Sodium hydroxide (1310-73-2)		
рН	14 (5 %)	
Respiratory or skin sensitization	Not classified	
Germ cell mutagenicity	Not classified	
Carcinogenicity	Not classified	
Reproductive toxicity	Not classified	
STOT-single exposure	Not classified	
STOT-repeated exposure	Not classified	
Aspiration hazard	Not classified	
Viscosity, kinematic	No data available	
Tetrasodium ethylenediaminetetraacetate (64-02-8)		
Viscosity, kinematic	Not applicable (solid)	
Sodium hydroxide (1310-73-2)		
Viscosity, kinematic	No data available in the literature	
Symptoms/effects after skin contact	Burns.	
Symptoms/effects after eye contact	Serious damage to eyes.	
Symptoms/effects after ingestion	Burns.	

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general :	Before neutralisation, the product may represent a danger to aquatic organisms.
Tetrasodium ethylenediaminetetraacetate (64-02-8)	
LC50 - Fish [1]	121 mg/l (US EPA, 96 h, Lepomis macrochirus, Static system, Fresh water, Experimental value, Soft water)
EC50 - Crustacea [1]	625 mg/l (DIN 38412-11, 24 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 algae	> 100 mg/l (EU Method C.3, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Weight of evidence, Nominal concentration)
Sodium hydroxide (1310-73-2)	
LC50 - Fish [1]	189 mg/l (48 h, Leuciscus idus, Fresh water, Experimental value)
EC50 - Crustacea [1]	40.4 mg/l (48 h, Ceriodaphnia sp., Experimental value, Locomotor effect)

	12.2. Persis	tence and	degradability
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Tetrasodium ethylenediaminetetraacetate (64-02-8)	
Persistence and degradability	Not readily biodegradable in water.
Biochemical oxygen demand (BOD)	< 0.002 g O ₂ /g substance

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Tetrasodium ethylenediaminetetraacetate (64-02-8)	
Chemical oxygen demand (COD)	0.54 - 0.58 g O ₂ /g substance
Sodium hydroxide (1310-73-2)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

12.3. Bioaccumulative potential

Tetrasodium ethylenediaminetetraacetate (64-02-8)	
BCF - Fish [1]	1.1 – 1.8 (28 day(s), Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	-13.17 (Estimated value, KOWWIN)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
Sodium hydroxide (1310-73-2)	
Bioaccumulative potential	Not bioaccumulative.

12.4. Mobility in soil

Tetrasodium ethylenediaminetetraacetate (64-02-8)		
2.495 (log Koc, SRC PCKOCWIN v2.0, Calculated value)		
Low potential for adsorption in soil.		
Sodium hydroxide (1310-73-2)		
No data available in the literature		
No (test)data on mobility of the substance available.		

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations	
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport informat	on
14.1. UN number	
DOT NA No UN-No. (TDG) UN-No. (IMDG) UN-No. (IATA)	: UN1760 : Not applicable : 1760 : 1760
14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Corrosive liquids, n.o.s.

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Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	 Not applicable CORROSIVE LIQUID, N.O.S. Corrosive liquid, n.o.s.
14.3. Transport hazard class(es)	
DOT Transport hazard class(es) (DOT) Hazard labels (DOT)	: 8 : 8 CORROSVE
TDG Transport hazard class(es) (TDG)	: Not applicable
IMDG Transport hazard class(es) (IMDG) Hazard labels (IMDG)	
IATA Transport hazard class(es) (IATA) Hazard labels (IATA)	
14.4. Packing group	
Packing group (DOT) Packing group (TDG) Packing group (IMDG) Packing group (IATA)	: II : Not applicable : II : II
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	
DOT UN-No.(DOT)	: UN1760

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DOT Special Provisions (49 CFR 172.102)	 B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized. IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T11 - 6 178.274(d)(2) Normal
	defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail (49	: 242
CFR 173.27)	
DOT Quantity Limitations Cargo aircraft only (49	: 30 L
CFR 175.75)	
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a
	passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
TDG Emergency Response Guide (ERG) Number	: 154
IMDG	
Special provision (IMDG)	: 274
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG) Tank instructions (IMDG)	: IBC02 : T11
Tank special provisions (IMDG)	: TP2. TP27
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	: S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES
Stowage category (IMDG)	: B
Stowage and handling (IMDG)	: SW2
Properties and observations (IMDG)	: Causes burns to skin, eyes and mucous membranes.
IATA PCA Excepted quantities (IATA)	: E2
PCA Excepted quantities (IATA) PCA Limited quantities (IATA)	: EZ : Y840
PCA limited quantity max net quantity (IATA)	: 0.5L
PCA packing instructions (IATA)	: 851
PCA max net quantity (IATA)	: 1L
CAO packing instructions (IATA)	: 855
CAO max net quantity (IATA)	: 30L
Special provision (IATA)	: A3
ERG code (IATA)	: 8L

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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Tetrasodium ethylenediaminetetraacetate	64-02-8	Present	Active	
Sodium hydroxide	1310-73-2	Present	Active	

Sodium hydroxide (1310-73-2)		
Not subject to reporting requirements of the United States SARA Section 313		
CERCLA RQ	1000 lb	

15.2. International regulations

CANADA

Tetrasodium ethylenediaminetetraacetate (64-02-8)	
Listed on the Canadian DSL (Domestic Substances List)	

Sodium hydroxide (1310-73-2)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations	
Component	State or local regulations
Sodium hydroxide(1310-73-2)	U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information				
according to Federal Register / Vol. Revision date	77, No. 58 / Monday, March 26, 2012 / Rules and Regulations : 3/19/2025			
Hazard Rating				
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given			
Flammability	: 0 Minimal Hazard - Materials that will not burn			
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.			

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Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.