

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

ADVANTAGE°

	terres to be between and a fittle and an annual and a beau
	tance/mixture and of the company/undertaking
1.1. Product identifier	
	: Mixture
	: ATD Power- 1022, 1024, 1025
	: 20177
1.2. Relevant identified uses of the substa	ance or mixture and uses advised against
1.3. Details of the supplier of the safety da	ata sheet
Advantage Chemical, LLC Temecula, CA, 92590 T 1-855-238-2436	
1.4. Emergency telephone number	
Emergency number	: 1-800-424-9300 ChemTrec
SECTION 2: Hazards identification	
2.1. Classification of the substance or mix	xture
GHS-US classification	
Met. Corr. 1	H290
Skin Corr. 1A	H314
Eye Corr. 2	H320
Full text of H-statements: see section 16	
2.2. Label elements	
GHS-US labelling	
Hazard pictograms (GHS-US)	GH505
Signal word (GHS-US)	Danger
•	: H290 - May be corrosive to metals H314 - Causes severe skin burns and eye damage H320 - Causes eye irritation
Precautionary statements (GHS-US)	 P234 - Keep only in original container P260 - Do not breathe Do not breathe fumes, mists, vapors or spray P264 - Wash hands, forearms and face thoroughly after handling P280 - Wear Eye protection, Face protection, Skin protection. Clothing protection 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 P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P337+P313 - If eye irritation persists: Get medical advice/attention P363 - Wash contaminated clothing before reuse P390 - Absorb spillage to prevent material damage P406 - Store in Original container or corrosive resistant container with a resistant inner liner P501 - Dispose of contents/container to a licensed hazardous waste facility in accordance with state and local agencies
2.3. Other hazards	

No additional information available

2.4. Unknown acute toxicity (GHS-US)

Not applicable

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SECTION 3: Composition/informa	ation on ingredients				
3.1. Substance	Substance				
Not applicable					
3.2. Mixture					
Name	Product identifier	%	GHS-US classification		
sodium hydroxide, conc=50%, aqueous solution	(CAS No) 1310-73-2	10 - 40	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Aquatic Acute 3, H402		

Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician immediately.
First-aid measures after eye contact	: 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/physician. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. Do not induce vomiting. Call a physician immediately.
4.2. Most important symptoms and effects	s, both acute and delayed
Symptoms/injuries	: Causes severe skin burns and eye damage.
Symptoms/injuries after skin contact	: Burns.
Symptoms/injuries after eye contact	: Serious damage to eyes. Mild eye irritation.
Symptoms/injuries after ingestion	: Burns.
4.3. Indication of any immediate medical a	attention and special treatment needed
Treat symptomatically.	

SECT	ION 5: Firefighting measur	res
5.1.	Extinguishing media	
Suitable	e extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuita	able extinguishing media	: Do not use a heavy water stream.
5.2.	Special hazards arising from the	he substance or mixture
Reactiv	vity	: Thermal decomposition generates : Corrosive vapours.
5.3.	Advice for firefighters	
Firefigh	ting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.	
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection ont attempt to take action without suitable protective equipment. Self-contained breath apparatus. Complete protective clothing.	

SECTION 6: Accidental release measures				
6.1.	Personal precautions, protective equipment and emergency procedures			
6.1.1. Emergen	For non-emergency personnel cy procedures	: Avoid contact with skin, eyes and clothing.		
6.1.2.	For emergency responders			
		Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".		
Emergen	cy procedures	: Ventilate area.		
6.2.	Environmental precautions			
Avoid role	Avoid release to the environment. Drevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters			

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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6.3. Methods and material for contain	inment and cleaning up
Methods for cleaning up	Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Absorb spillage to prevent material damage.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
See Heading 8. Exposure controls and pers	onal protection. For further information refer to section 13.
SECTION 7: Handling and storag	e
7.1. Precautions for safe handling	
Additional hazards when processed	: May be corrosive to metals.
Precautions for safe handling	 Ensure good ventilation of the work station. Avoid contact with skin, eyes and clothing. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, inc	luding any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep only in original container in a cool well ventilated area. Keep container closed when not in use. Store in corrosive resistant container with a resistant inner liner. Keep only in original container. Store locked up. Store in a well-ventilated place. Keep cool.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight. Metals.
Storage temperature	: 25 (5 - 42) °C
Packaging materials	: polyethylene. Do not store in corrodable metal.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection				
8.1. Control parameters				
ATD Power- 1022, 1024, 10	25			
ACGIH	Not applicable			
OSHA	Not applicable			
sodium hydroxide, conc=5	0%, aqueous solution (1310-73-2)			
ACGIH	Not applicable			
OSHA	Not applicable			
potassium hydroxide (1310-58-3)				
ACGIH	ACGIH Ceiling (mg/m ³)	2 mg/m ³ (Potassium hydroxide; USA; Momentary value; TLV - Adopted Value)		
OSHA	Not applicable			

8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or face shield. Safety glasses.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment.
Environmental exposure controls	: Avoid release to the environment.
Other information	: Do not eat, drink or smoke during use.

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SECTION 9: Physical and chemica	l properties
9.1. Information on basic physical and	d chemical properties
Physical state	: Liquid
Colour	: red
Odour	: characteristic
Odour threshold	: No data available
рН	: 12.5 - 14
Melting point	: Not applicable
Freezing point	: <= 0 °C
Boiling point	: >= 100 °C
Flash point	: None
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Vapour pressure	: No data available
Relative density	: No data available
Relative vapour density at 20 °C	: No data available
Density	: >= 1.219 g/ml
Solubility	 Soluble in water. Water: Solubility in water of component(s) of the mixture : tetrasodium ethylenediaminetetracetate: 103 g/100ml potassium hydroxide: 112 g/100ml sodium hydroxide, conc=50%, aqueous solution: Complete
Log Pow	: No data available
Log Kow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
9.2. Other information	
VOC content	: <= 1 g/l
SECTION 10: Stability and reactivi	five and the second
10.1. Reactivity	Ly
Thermal decomposition generates : Corrosive	Vapolite
10.2. Chemical stability	
Not established.	
10.3. Possibility of hazardous reactions	S
Not established.	
10.4. Conditions to avoid	
Direct sunlight. Extremely high or low temperative	tures.
10.5. Incompatible materials	
Strong acids. Strong bases. metals. May be co	prrosive to metals.
10.6. Hazardous decomposition produc	cts
	rmal decomposition generates : Corrosive vapours.
SECTION 11: Toxicological inform 11.1. Information on toxicological effect	
in the matter of text cological effect	10
Acuto toxicity	· Not classified
Acute toxicity	: Not classified

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potassium hydroxide (1310-58-3)	
LD50 oral rat	333 mg/kg (Rat; Equivalent or similar to OECD 425; Experimental value)
ATE US (oral)	333.000 mg/kg bodyweight
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
	pH: 12.5 - 14
Serious eye damage/irritation	: Causes eye irritation.
	pH: 12.5 - 14
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/injuries after skin contact	: Burns.
Symptoms/injuries after eye contact	: Serious damage to eyes. Mild eye irritation.
Symptoms/injuries after ingestion	: Burns.
SECTION 12: Ecological information	

SECT	ION 12:	Ecological	informatio
12.1.	Toxicit	t y	

logy - general : Before neutralisation, the product may represent a danger to aquatic organisms.					
potassium hydroxide (1310-58-3)					
LC50 fish 2	80 mg/l (LC50; 96 h; Gambusia affinis; Static system; Fresh water)				
12.2. Persistence and degradability					
ATD Power- 1022, 1024, 1025					
Persistence and degradability Not established.					
sodium hydroxide, conc=50%, aqueous solution (1310-73-2)					
Persistence and degradability Biodegradability: not applicable. No (test)data on mobility of the components availab					
potassium hydroxide (1310-58-3)					
Persistence and degradability Biodegradability: not applicable.					
ochemical oxygen demand (BOD) Not applicable					
Chemical oxygen demand (COD) Not applicable					
ThOD Not applicable					
12.3. Bioaccumulative potential					
ATD Power- 1022, 1024, 1025					
Bioaccumulative potential Not established.					
sodium hydroxide, conc=50%, aqueous solution (1310-73-2)					
Bioaccumulative potential Does not contain bioaccumulative component(s).					
potassium hydroxide (1310-58-3)					
Bioaccumulative potential	Bioaccumulation: not applicable.				
12.4. Mobility in soil					
No additional information available					
12.5. Other adverse effects					

Effect on the global warming

: No known ecological damage caused by this product.

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Other information	Avoid release to the environment.				
SECTION 13: Disposal considerations					
13.1. Waste treatment methods					
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.				
Waste disposal recommendations	Dispose of contents/containers in hazardous or special waste collection point, an approved disposal plant, a licensed hazardous waste disposal contractor or authorized waste collection site in accordance with local, regional and/or international regulation, except for empty clean containers which can be disposed of as non hazardous waste.				
Ecology - waste materials	: Avoid release to the environment.				
SECTION 14: Transport information					

Department of Transportation (DOT) In accordance wit

- DOT Packaging N
- DOT Packaging B
- DOT Symbols

Department of Transportation (DOT) In accordance with DOT		
Transport document description	: UN3266 Corrosive liquids,basic, inorganic n.o.s. (Sodium Hydroxide), 8, II	
UN-No.(DOT)	: UN3266	
Proper Shipping Name (DOT)	: Corrosive liquids, n.o.s.	
	Sodium Hydroxide	
Transport hazard class(es) (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136	
Hazard labels (DOT)	8 - Corrosive	
Packing group (DOT)	: II - Medium Danger	
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202	
DOT Packaging Bulk (49 CFR 173.xxx)	: 242	
DOT Symbols	: G - Identifies PSN requiring a technical name	
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) e d
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 1L	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 30 L	
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" or passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.	n
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"	
Additional information		
Other information	: Consumer Commodity for containers less than 1 Liter.	
10/00/0001		

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ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information				
15.1. US Federal regulations				
sodium hydroxide, conc=50%, aqueous solution (1310-73-2)				
Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporing requirements of the United States SARA Section 313				
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb			
potassium hydroxide (1310-58-3)				
Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporing requirements of the United States SARA Section 313				
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb			

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP] No additional information available

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] Not classified

National regulations No additional information available

15.3. US State regulations

sodium hydroxide, conc=50%, aqueous solution (1310-73-2)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

potassium hydroxide (1310-58-3)

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Other information

: None.

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Full tex	t of H-statements:			
	Acute Tox. 4 (Oral) Aquatic Acute 3 Eye Irrit. 2B		Acute toxicity (oral), Category 4	
			Hazardous to the aquatic environment — Acute Hazard, Category 3	
			Serious eye damage/eye irritation, Category 2B	
	Met. Corr. 1		Corrosive to metals, Category 1	
	Skin Corr. 1A		Skin corrosion/irritation, Category 1A	
	H290		May be corrosive to metals	
	H302		Harmful if swallowed	
	H314		Causes severe skin burns and eye damage	
	H320		Causes eye irritation	
	H402		Harmful to aquatic life	
NFPA f NFPA r	 PA health hazard S - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given. O - Materials that will not burn. O - Normally stable, even under fire exposure conditions, and are not reactive with water. PA specific hazard None 		Ih prompt medical attention was burn. under fire exposure conditions,	
HMIS I	II Rating			
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatmen given			
Flamma	mmability : 0 Minimal Hazard - Materials that will not burn		rials that will not burn	
Physica	al		: 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.	
Person	Personal Protection : C			
C - Safety glasse		C - Safety glasses, Glov	Gloves, Synthetic apron	
			• •	

SDS US (GHS HazCom 2012)

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