

Hazard Identification:

SAFETY DATA SHEET

Page 1 of 5 **99-0624**

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards

SDS Revision: 3.1

SDS Revision Date: 12/1/2015

	2 1 11	1. PRODUCT & COMPANY IDENTIFICATION
1.1 F	Product Name:	K & N SYNTHETIC AIR FILTER CLEANER
1.2	Chemical Name:	See ingredients listed in section 3
1.3	Synonyms:	None reported by the manufacturer
1.4 T	Frade Names:	Synthetic Air Filter Cleaner
1.5 F	Product Use:	Automotive – Cleaner
1.6	Distributor's Name:	K&N Engineering, Inc.
1.7	Distributor's Address:	P.O. Box 1329, Riverside, CA 92502-1329 USA
1.8 E	Emergency Phone:	CHEMTREC +1 (800) 424-9300 / +1 (703) 527-3887 (CCN 632715)
1.9 E	Business Phone / Fax:	+1 (800) 858-3333 / +1 (951) 826-4001

2. HAZARDS IDENTIFICATION

This product is classified as a HAZARDOUS SUBSTANCE but not as DANGEROUS GOODS

according to the classification criteria of NOHSC:1088 (2004) and ADG Code (Australia).

WARNING! HARMFUL IF SWALLOWED. CAUSES SERIOUS EYE IRRITATION.

Classification: Acute Tox. 4; Eye Irrit. 2

Hazard Statements (H): H302 – Harmful if swallowed. H319 – Causes serious eye irritation.

Precautionary Statements (P): P264 – Wash with soap and water thoroughly after handling. P270

– Do not eat, drink or smoke when using this product. P280 – Wear protective gloves/ eye protection. P301+P312 – IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P330 – Rinse mouth. 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. P501 – Dispose of contents/container to a licensed

treatment, storage or disposal facility (TSDF).



3. COMPOSITION & INGREDIENT INFORMATION

								EXPO	SURE LI	MITS IN	AIR (mg	g/m³)	
					AC	GIH		NOHSC			OSHA		
					pp	m		ppm			ppm		
CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	ES- TWA	ES- STEL	ES- PEAK	PEL	STEL	IDLH	OTHER
WATER (AQUA/EAU)	7732-18-5	ZC0110000	231-791-2	60-100	NA	NA	NF	NF	NF	NA	NA	NA	
WATER (AQUA/EAU)													
SODIUM LAURETH SULFATE	9004-82-4	WB7499000	NA	1.0-5.0	NA	NA	NF	NF	NF	NA	NA	NA	
COBIOM EXCINETITIONE TATE	Acute Tox. 4, E	ye Irrit. 2; H302,	H319										
SODIUM CITRATE DIHYDRATE	6132-04-3	NA	NA	0.1-1.0	NA	NA	NF	NF	NF	NA	NA	NA	
SODIOM CITRATE DINTERATE	Eye Irrit. 2; H31	9											
ETHYLENEDIAMINETETRAACETIC	60-00-4	AH4025000	200-449-4	0.1-1.0	NA	NA	NF	NF	NF	NA	NA	NA	
ACID (EDTA)	Eye Irrit. 2A; H	319											

4. FIRST AID MEASURES

Center or local emergency telephone number for assistance and instructions. Seek immediate medic attention. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk aspiration. Eyes: If product gets in the eyes, flush eyes thoroughly with copious amounts of water for at least 15 minute holding eyelid(s) open to ensure complete flushing. If the eyes or face become swollen during or following use, consult a physician or emergency room immediately. Skin: Remove contaminated clothing and wash affected areas with soap and water. If irritation persists, see prompt medical attention. Do not wear contaminated clothing until after it has been properly cleaned. Inhalation: Remove victim to fresh air at once. If breathing is difficult, administer supplemental oxygen and se immediate medical attention. If breathing stops, perform artificial respiration. Ingestion: Ingestion: If product is swallowed, may cause nausea, vomiting and/or diarrhea. Eyes: Moderately irritating to the eyes. Skin: This product can cause mild, transient skin irritation with short-term exposure. This product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. Vapors of this product may be irritating to the nose, throat and other tissues of the respiratory system and cause redness, itching and watering. The product can cause allergic skin reactions (e.g., rashes, welts, dermatit upon prolonged or repeated exposure. Acute Health Effects: Moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of vapors can caudrowsiness, dizziness, headaches and nausea. Chronic Health Effects: The material may accentuate any pre-existing dermatitis condition.			4. FIRST AID WILASURES
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4.6 Target Organs: Eyes, skin & respiratory system.	4.5	Chronic Health Effects:	The material may accentuate any pre-existing dermatitis condition.
	4.6	Target Organs:	Eyes, skin & respiratory system.



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4.7	Medical Conditions Aggravated by Exposure:	Pre-existing dermatitis, other			ie HE/	HEALTH				2
	Aggravated by Exposure.	target organs (eyes, skin, and respiratory system).				AMMA	BILITY	0		
					PHY	YSICA	L HAZ	ARDS		0
					PRO	OTEC	ΓIVE E	QUIPM	ENT	В
					EYE		SKIN			
	L									
		5. FI	REFIGHTIN	NG MEASUR	ES					
5.1	Fire & Explosion Hazards:	This material can burn but will not readily ignite. This material will release vapors (toxic fumes of sodium oxide) when heated above the flash point temperature that can ignite when exposed to a source of ignition. Toxic fumes of sodium oxide.						•		
5.2	Extinguishing Methods:	Dry chemical, foam, carbon								
5.3	Firefighting Procedures:	Keep containers cool until vand to protect personal. Avboilover. Prevent runoff from supply, or any natural water positive pressure self-concombustion or decompositic	vell after the fire i oid spraying wate om fire control or way. Firefighters tained breathing	is out. Use water a er directly into stora dilution from ente must use full bunk apparatus to pro	ge container ring sewers, ker gear inclu otect agains	rs beca , drains uding N	use of d , drinkir IIOSH-a	anger ong wate pproved	f r d	0
		6 ACCID	FNTAL RE	LEASE MEA	SURFS	<u> </u>				
6.1	Spills:	Before cleaning any spill					oar arr	ropriot	a Personal	Protoctive
		For <u>small spills</u> (e.g., < 1 gallon (3.8 L)) wear appropriate personal protective equipment (e.g., goggles, glove Maximize ventilation (open doors and windows) and secure all sources of ignition. Remove spilled material absorbent material and place into appropriate closed container(s) for disposal. Dispose of properly in accordance local, state and federal regulations. Wash all affected areas and outside of container with plenty of warm water soap. Remove any contaminated clothing and wash thoroughly before reuse. For <u>large spills</u> (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unprotected individuals. Dike and contain spill with in material (e.g., sand or earth). Use ONLY non-sparking tools for recovery and cleanup. Transfer liquid to containers recovery or disposal and solid diking material to separate containers for proper disposal. Remove contaminated clot promptly and wash affected skin areas with soap and water. Keep spills and cleaning runoffs out of municipal sevand open hodies of water.							aterial with rdance with	
		material (e.g., sand or earth recovery or disposal and so	 Use ONLY no lid diking material 	n-sparking tools fo I to separate contai	r recovery ar iners for prop	nd clea per disp	inup. Ti oosal. R	ransfer Remove	liquid to co contamina	ntainers fo ted clothing
		material (e.g., sand or earth recovery or disposal and so promptly and wash affected and open bodies of water. 7. HANDLI	n). Use ONLY no lid diking material skin areas with s	n-sparking tools fo I to separate contai soap and water. I	r recovery and rec	nd clea per disp and clea	inup. Ti bosal. R aning ru	ransfer Remove noffs ou	liquid to co contamina ut of munic	ntainers fo ted clothing ipal sewers
7.1	Work & Hygiene Practices:	material (e.g., sand or earth recovery or disposal and so promptly and wash affected and open bodies of water.	n). Use ONLY no lid diking material diskin areas with a skin areas with seed of the sk	n-sparking tools for to separate contains soap and water. Fraction of the separate contains and water. Fraction of the separate contact. Was separated to the separate contact. Was separated to the separate contact. Was separated to the separate	r recovery and iners for properties for properties and the spills	nd clea per disp and clea N orough	nup. Ti posal. R aning ru	ransfer demove noffs ou	liquid to co contamina ut of munic	ntainers fo ted clothing ipal sewers and before
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7.2	Storage & Handling:	material (e.g., sand or earth recovery or disposal and so promptly and wash affected and open bodies of water. 7. HANDLI Use normal hygiene practic eating, drinking, or smoking contaminated clothing, are recontaminated clothing, are recontaminated sources of Maximum Recommended Security Follow all instructions on preserved.	NG & STOF Tes. Avoid direct Good personal ecommended. heat. helf-Life: 24 mont boduct label. Keep	n-sparking tools for to separate contains soap and water. Fraction of the separate contains soap and water. Fraction of the separate contains the separate container closed was a separate con	RMATIO sh hands the , such as wa	nd cleaper dispand clean N orough ashing use. Ke	loosal. Raning ru	ransfer demove noffs ou using the	liquid to co contamina ut of munic	ntainers for ted clothing ipal sewers and before d removing
7.2	Storage & Handling: Special Precautions: Exposure Limits:	material (e.g., sand or earth recovery or disposal and so promptly and wash affected and open bodies of water. 7. HANDLI Use normal hygiene practic eating, drinking, or smoking contaminated clothing, are recontaminated clothing, are recontaminated sources of Maximum Recommended S Follow all instructions on present contaminated sources.	NG & STOF Tes. Avoid direct Good personal ecommended. heat. helf-Life: 24 mont boduct label. Keep	RAGE INFOI skin contains properly skin contact. Was hygiene practices container closed with the properly skin closed with the properly s	RMATIO sh hands the , such as wa	nd cleaper dispand clean N orough ashing use. Ke	loosal. Raning ru	ransfer demove noffs ou using the	liquid to co contamina ut of munic	ntainers fo ted clothing ipal sewers and before d removing
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7.2	Storage & Handling: Special Precautions: Exposure Limits:	material (e.g., sand or earth recovery or disposal and so promptly and wash affected and open bodies of water. 7. HANDLI Use normal hygiene practic eating, drinking, or smoking contaminated clothing, are reconstructed in the same of	NG & STOF The state of the sta	RAGE INFOI skin contains properly skin contact. Was hygiene practices container closed with the properly skin closed with the properly s	RMATIO sh hands the , such as wa	nd cleaper dispand clean N orough ashing use. Ke	loosal. Raning rully after any skir	ransfer demove noffs ou using the	liquid to co contamina ut of munic his product ct areas an	ntainers fo ted clothing ipal sewers and before d removing
7.2	Storage & Handling: Special Precautions: Exposure Limits:	material (e.g., sand or earth recovery or disposal and so promptly and wash affected and open bodies of water. 7. HANDLI Use normal hygiene practice eating, drinking, or smoking contaminated clothing, are reconstructed to the contaminated section of Maximum Recommended Section of Children. 8. EXPOSURE CONTAME(S) NA When working with large questions and section of the contaminated sectio	NG & STOP Ses. Avoid direct Good personal ecommended. heat. helf-Life: 24 mont oduct label. Keep NTROLS & ACGIH TLV STEL NA NA antities of product	RAGE INFOI skin contact. Was hygiene practices container closed withs container closed withs container closed withs NOHSC ES- TWA ES-STEL NF	RMATIO sh hands the such as was when not in use such as was well as the such as was such a	nd cleaper dispand clea N orough ashing LUSE. Ke PEL NA (e.g., lo	ly after any skir eep this iON osha stel NA ocal exha	using the contact	liquid to co contamina ut of municular of mu	and befored removin
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Special Considerations:

NA

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 12/1/2015 9. PHYSICAL & CHEMICAL PROPERTIES Appearance: Clear, colorless liquid 92 Odor. NA 9.3 Odor Threshold: NA 9.4 12-13 9.5 Melting Point/Freezing Point: NA Initial Boiling Point/Boiling 9.6 NA 9.7 Flashpoint: NA 9.8 Upper/Lower Flammability NA 99 Vapor Pressure: NA 9.10 Vapor Density: NA 9.11 Relative Density: NA 9.12 Solubility: Soluble Partition Coefficient (log Pow): 9.13 NA 9.14 Autoignition Temperature NA 9.15 Decomposition Temperature: NA NA 9.17 Other Information: NA 10. STABILITY & REACTIVITY 10.1 Stability: Stable under normal conditions of use. 10.2 Hazardous Decomposition None known. Products 10.3 Hazardous Polymerization: Will not occur. 104 Conditions to Avoid: Strong oxidizers and reducing agents. 10.5 Incompatible Substances: Strong oxidizing agents, strong acids and bases. 11. TOXICOLOGICAL INFORMATION Routes of Entry: 11.1 Inhalation: YES Absorption: NO Ingestion: YES 11.2 Toxicity Data: This product has NOT been tested on animals to obtain toxicology data 11.3 Acute Toxicity: See section 4.4 11.4 Chronic Toxicity: See section 4.5 11.5 Suspected Carcinogen: 11.6 Reproductive Toxicity This product is not reported to produce reproductive toxicity in humans. Mutagenicity: This product is not reported to produce mutagenic effects in humans. Embryotoxicity This product is not reported to produce embryotoxic effects in humans. Teratogenicity: This product is not reported to produce teratogenic effects in humans. Reproductive Toxicity: This product is not reported to produce reproductive effects in humans. 11.7 Irritancy of Product: See section 4.3 11.8 Biological Exposure Indices: NE 11.9 Physician Recommendations: Treat symptomatically. 12. ECOLOGICAL INFORMATION 12.1 Environmental Stability: There are no specific data available for this product. 12.2 Effects on Plants & Animals: There are no specific data available for this product. 12.3 Effects on Aquatic Life: There are no specific data available for this product; however, very large releases of this product may be harmful or fatal to overexposed aquatic life 13. DISPOSAL CONSIDERATIONS 13.1 Waste Disposal: Review current local, state and federal laws, codes, statutes and regulations to determine current status and appropriate disposal method for the ingredients listed in Section 2. Any disposal practice must be in compliance with local, state, and federal laws and regulations



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	14. TRANSPORTATION INFORMATION						
			n, packing group) is shown for each mode of transportation. Additional				
14.1	49 CFR (GND):	e required by 49 CFR, IATA/ICAO, IMDG and the CNOT REGULATED	TDGR.				
14.2	IATA (AIR):	NOT REGULATED					
14.3	IMDG (OCN):	NOT REGULATED					
14.4	TDGR (Canadian GND):	NOT REGULATED					
14.5	ADR/RID (EU):	NOT REGULATED					
14.6	SCT (MEXICO):	NOT REGULATED					
14.7	ADGR (AUS):	NOT REGULATED					
		15. REGULATORY I	NEORMATION				
15.1	SARA Reporting						
15.2	Requirements: SARA Threshold Planning	<u>'</u>	oject to SARA Title III, section 313 reporting requirements.				
	Quantity:	There are no specific Threshold Planning Quantiti					
15.3	TSCA Inventory Status:	The components of this product are listed on the	TSCA Inventory.				
15.4	CERCLA Reportable Quantity (RQ):	NA					
15.5	Other Federal Requirements:	pollutants under the CWA. None of the compone	pollutants. None of the components in this product are listed as priority nts in this product are listed as toxic pollutants under the CWA.				
15.6	Other Canadian Regulations:	all of the information required by the CPR. T	e hazard criteria of the CPR and the SDS contains the components of this product are listed on the product are listed on the Priorities Substances List.				
15.7	State Regulatory Information:	No ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following stat criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substance List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardou Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvani Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI).					
15.8	Other Requirements:	The primary components of this product are not li Irritant (Xi). Risk Phrases (R): 36/37/38 – Irrita Phrases (S): 2-36/37-46 – Keep out of reach of gloves. If swallowed, seek medical advice immed	ting to eyes, skin and respiratory system. <u>Safety</u> of children. Wear suitable protective clothing and				
		16. OTHER INFO	DRMATION				
16.1	Other Information:		USES EYE IRRITATION. Wash hands and exposed skin areas with				
		soap and water thoroughly after handling. Wear ON SKIN: Wash with plenty of soap and water. In a well-ventilated area. IF INHALED: Removing the several minutes. Remove contact lenses, if premedical advice/attention. Store in a well-ventilate OF REACH OF CHILDREN.	protective gloves/protective clothing/eye protection/face protection. IF Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or we victim to fresh air and keep at rest in a position comfortable for hysician if you feel unwell. IF IN EYES: Rinse cautiously with water for sent and easy to do. Continue rinsing. If eye irritation persists: Get ed place. Keep container tightly closed. Store locked up. KEEP OUT				
16.2	Terms & Definitions:	See next page of this Safety Data Sheet.					
16.3	Disclaimer:	government regulations must be reviewed for Engineering, Inc.'s knowledge, the information accuracy, suitability or completeness are not gua provided. The information contained herein rela other materials, all component properties must lead to be consult the latest edition.	SHA's Hazard Communication Standard, 29 CFR §1910.1200. Other applicability to this product. To the best of ShipMate's and K&N contained herein is reliable and accurate as of this date; however, ranteed and no warranties of any type, either expressed or implied, are tes only to the specific product(s). If this product(s) is combined with be considered. Data may be changed from time to time. Be sure to				
16.4	Prepared for:	K&N Engineering, Inc. P.O. Box 1329 Riverside, CA 92502-1329 USA Tel: +1 (800) 858-3333 Fax: +1 (951) 826-4001 E-Mail: tech@knfilters.com http://www.knfilters.com	THE WORLD'S BEST AIR FILTER				
16.5	Prepared by:	ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com	ShipMate ShipMate Dangerous Goods Training & Consulting				



SAFETY DATA SHEET

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards

SDS Revision Date: 12/1/2015

DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

CAS No.	Chemical Abstract Service Number

EXPOSURE LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists
С	Ceiling Limit
IDLH	Immediately Dangerous to Life and Health
OSHA	U.S. Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
TLV	Threshold Limit Value

EIDET AID MEACHDES

FIRST AID MEASURES:							
CPR	Cardiopulmonary resuscitation - method in which a person whose heart has stopped receives manual chest compressions and breathing to circulate blood and provide oxygen to the body.						

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

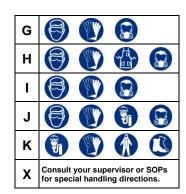
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard



PERSONAL PROTECTION RATINGS:

Α			
В	(EV)		
С	(EV)		
D	(ELV)	T.	
Ε	(ELL)		
F	(EV)	The state of the s	





Splash Goggles



Full Face Respirator

Synthetic Apron







Dust Respirator

Full Face

ซื้า Airline Hood/Mask or SCBA

OTHER STANDARD ABBREVIATIONS:

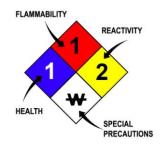
ML	Maximum Limit
NA	Not Available
ND	Not Determined
NE	Not Established
NF	Not Found
NR	No Results
SCBA	Self-Contained Breathing Apparatus

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:				
Autoignition Temperature	Minimum temperature required to initiate combustion in air with no other source of ignition			
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source			
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source			

HAZARD RATINGS:

0	Minimal Hazard					
1	Slight Hazard					
2	Moderate Hazard					
3	3 Severe Hazard					
4	Extreme Hazard					
ACD	Acidic					
ALK	Alkaline					
COR	Corrosive					
₩	Use No Water					
ОХ	Oxidizer					
TREFOIL	EFOIL Radioactive					



TOXICOLOGICAL INFORMATION:

	1 4 15 (11 0 1 11) 11 1 1 1 1 500 (14) 1 1 1 1				
LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals				
	\$				
LC ₅₀	Lethal concentration (gases) which kills 50% of the exposed animal				
ppm Concentration expressed in parts of material per million parts					
TD _{Io} Lowest dose to cause a symptom					
TCLo Lowest concentration to cause a symptom					
TD _{io} , LD _{io} , & LD _o or	TD _{Io} , LD _{Io} , & LD _o or Lowest dose (or concentration) to cause lethal or toxic effects				
TC, TC _o , LC _{lo} , & LC _o					
IARC	International Agency for Research on Cancer				
NTP	National Toxicology Program				
RTECS	Registry of Toxic Effects of Chemical Substances				
BCF	Bioconcentration Factor				
TL _m	Median threshold limit				
log K _{ow} or log K _{oc}	Coefficient of Oil/Water Distribution				

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System					
DOT	U.S. Department of Transportation					
TC	ransport Canada					
EPA	U.S. Environmental Protection Agency					
DSL	Canadian Domestic Substance List					
NDSL	Canadian Non-Domestic Substance List					
PSL	Canadian Priority Substances List					
TSCA	U.S. Toxic Substance Control Act					
EU	European Union (European Union Directive 67/548/EEC)					
WGK	Wassergefährdungsklassen (German Water Hazard Class)					

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

0	(2)	(4)		\odot	(1)		
Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

EC (67/548/EEC) INFORMATION:

			¥			×	×
С	Е	F	N	0	Т	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

CLP/GHS (1272/2008/EC) PICTOGRAMS:

			\Diamond			\cdot		E
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment