

Revision nr. 3 Dated 11/10/2021 Printed on 11/10/2021 Page n 1/16 Replaced revision: 2 (11/9/2021)

# Safety Data Sheet

According to U.S.A. Federal Hazcom 2012

1. Identification	
<b>1.1. Product identifier</b> Code: Product name	Armus_GA_010920-046 AES Guard (Part A)
1.2. Relevant identified uses of the substance or mixtureIntended useAsphalt Epoxy Sealer - Part A - Base	-
1.3. Details of the supplier of the safety data sheet	
Name	Armus LLC
Full address	137 Grand Street 3rd floor NY
District and Country	NY 10013
	United States
	Tel. (+1) 9179575383
e-mail address of the competent person	
responsible for the Safety Data Sheet	bill@armussolutions.com
1.4. Emergency telephone number	
For urgent inquiries refer to	Tel. (+1) 9179575383 United States
2. Hazards identification	

# 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200). The product thus requires a safety datasheet.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Classification and Hazard Statement



Hazard pictograms:

Flammable liquid, category 3	Flammable liquid and vapor.
Germ cell mutagenicity, category 2	Suspected of causing genetic defects.
Reproductive toxicity, category 2	Suspected of damaging fertility or the unborn child.
Aspiration hazard, category 1	May be fatal if swallowed and enters airways.
Eye irritation, category 2	Causes serious eye irritation.
Skin irritation, category 2	Causes skin irritation.
Skin sensitization, category 1	May cause an allergic skin reaction.
Hazardous to the aquatic environment,	Toxic to aquatic life with long lasting effects.
chronic toxicity, category 2	
Specific target organ toxicity –	May cause damage to organs through prolonged or repeated exposure.
repeated exposure, category 2	



Hazard statements:	
H226	Flammable liquid and vapor.
H341	Suspected of causing genetic defects.
H361	Suspected of damaging fertility or the unborn child.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.
Precautionary statements:	

# Precautionary statements:

### Prevention:

P210	Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
P260	Do not breathe fume, mist, or spray.
P202	Do not handle until all safety precautions have been read and understood.
P242	Use only non-sparking tools.
P201	Obtain special instructions before use.
P233	Keep container tightly closed.
P280	Wear protective gloves/ protective clothing / eye protection / face protection.
P264	Wash with plenty of water and soap thoroughly after handling.
P240	Ground / bond container and receiving equipment.
P243	Take precautionary measures against static discharge.
P241	Use explosion-proof electrical / ventilating / lighting / / equipment.



Contaminated work clothing should not be allowed out of the workplace.

P273	Avoid release to the	environi	ment			
1270		0111110111				
Response:						
P331						
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to					
	do. Continue rinsing					
P303+P361+P353	F ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower.					
P308+P313		F exposed or concerned: Get medical advice / attention.				
P301+P310	IF SWALLOWED: Imm	IF SWALLOWED: Immediately call a POISON CENTER or a doctor				
P314	Seek medical advic	e / atten	ition if you feel unwell.			
P333+P313	If skin irritation or ras	h occurs:	: Get medical advice / attention.			
P337+P313	If eye irritation persis	sts: Seek r	medical advice / attention.			
P302+P352	IF ON SKIN: Wash wi	th plenty	of water /			
P362+P364	Take off contamina	ted cloth	ing and wash it before reuse.			
P370+P378	In case of fire: use d	lry powde	er or Carbon Dioxide (CO2) fire extinguisher to extinguish.			
P363	Wash contaminated	d clothing	g before reuse.			
P391	Collect spillage.					
Storage:						
P403+P235	Store in a well-ventil	lated pla	ce. Keep cool.			
P405	Store locked up.					
Disposal:						
P501	Dispose of contents	or conta	iner according to local/national/international regulations.			
2.2 Other hazards						
Information not available.						
3. Composition / informo	ation on ingredients					
3.1. Mixtures						
Contains:						
Identification	c	Conc. %	Classification:			
Epoxy resin (number ave	rage molecular	8	Eye irritation, category 2 H319, Skin irritation, category 2 H315, Skin			
weight <=700)			sensitization, category 1 H317, Hazardous to the aquatic environment,			
CAS 25068-38-6			chronic toxicity, category 2 H411			
EC 500-033-5						
INDEX 603-074-00-8						

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# **AES Guard (Part A)**

<b>2,3-Epoxypropyl neodecanoate</b> CAS 26761-45-5 EC 247-979-2 INDEX	10.5	Germ cell mutagenicity, category 2 H341, Skin sensitization, category 1 H317, Hazardous to the aquatic environment, chronic toxicity, category 2 H411
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics CAS 64742-48-9 EC 919-857-5 INDEX	10	Flammable liquid, category 3 H226, Aspiration hazard, category 1 H304, Specific target organ toxicity - single exposure, category 3 H336
<b>TOULENE</b> CAS 108-88-3 EC 203-625-9 INDEX 601-021-00-3	9.145	Flammable liquid, category 2 H225, Reproductive toxicity, category 2 H361, Aspiration hazard, category 1 H304, Specific target organ toxicity - repeated exposure, category 2 H373, Skin irritation, category 2 H315, Specific target organ toxicity - single exposure, category 3 H336

The full wording of hazard (H) phrases is given in section 16 of the sheet.

### 4. First-aid measures

#### 4.1. Description of first aid measures

EYES: Remove contact lenses if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorized by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

#### 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

# 4.3. Indication of any immediate medical attention and special treatment needed

Information not available

# 5. Fire-fighting measures

#### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder, and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.



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# AES Guard (Part A)

# 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

# 5.3. Advice for firefighters

# GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

# SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal firefighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

# 6. Accidental release measures

# 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

# 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

# 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

# 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

# 7. Handling and storage

# 7.1. Precautions for safe handling

Keep away from heat, sparks, and open flames; do not smoke or use matches or lighters. Without adequate ventilation, vapors may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. To avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurized. Do not eat, drink, or smoke during use. Avoid leakage of the product into the environment.



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# 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well-ventilated place, away from direct sunlight. Store in a cool and well-ventilated place, keep far away from sources of heat, open flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

# 7.3. Specific end use(s)

Information not available

8. Exposure controls / personal protection				
8.1. Control parameters Regulatory References:				
USA USA	NIOSH-REL OSHA-PEL	NIOSH publication NO. 2005-149, 3 <sup>rd</sup> printing, 2007. Occupational Exposure Limits – Limits for Air Contaminants TABLE Z-1-1910- 1000		
USA	CAL/OSHA-PEL	California Division of Occupational Safety and Health (Cal-OSHA) Permissible Exposure Limits (PELs).		
TOLUENE Threshold Limit Value				

Туре	Country	TWA / 8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	Ppm	
OSHA	USA		200		300	
CAL/OSHA	USA	37	10	560 (C)	500 (C)	SKIN
NIOSH	USA	375	100	560	150	

# Legend:

(C) = CLEANING ; INHAL = Inhalation Fraction ; RESP = Respiratory Fraction ; THORA = Thoracic Fraction

# 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must comply with current regulations.

# HAND PROTECTION

Protect hands with category III work gloves (OSHA 29 CFR 1910.138).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability. The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.



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# AES Guard (Part A)

### SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear. Wash body with soap and water after removing protective clothing.

# EYE PROTECTION

Wear airtight protective goggles (OSHA 29 CFR 1910.133).

# RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a NIOSH certified filter, whose limit of use will be defined by the manufacturer (NIOSH 42 CFR 84, OSHA 29 CFR 1910.134). In the presence of gases or vapors of various kinds and/or gases or vapors containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odorless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus or external air-intake breathing apparatus. For a correct choice of respiratory protection device, see standard NIOSH 42 CFR 84, OSHA 29 CFR 1910.134.

#### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with wastewater or by dumping in waterways.

#### 9. Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Appearance	Liquid
Color	Not available
Odor	Not available
Odor threshold	Not available
рН	Not available
Melting point / freezing point	Not available
Initial boiling point	> 25°C (95°F)
Boiling range	Not available
Flash point	23 < T < 60°C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Lower inflammability limit	Not available
Upper inflammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapor pressure	Not available
Vapor density	Not available



Relative density Not available Solubility Not available Partition coefficient: n-octanol/water Not available Auto-ignition temperature Not available Decomposition temperature Not available Not available Viscosity Not available Explosive properties Not available Oxidizing properties

#### 9.2. Other information

Information not available.

#### 10. Stability and reactivity

#### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

CALCIUM CARBONATE

Decomposes at temperatures above 800°C/1472°F.

TOLUENE Avoid exposure to: light.

#### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

#### 10.3. Possibility of hazardous reactions

The vapors may also form explosive mixtures with the air.

TOLUENE

Risk of explosion on contact with: fuming sulphuric acid, nitric acid, silver perchlorate, nitrogen dioxide, non-metal halogenates, acetic acid, organic nitrocompounds.

May form explosive mixtures with: air.

May react dangerously with: strong oxidizing agents, strong acids, Sulphur.

#### 10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

#### 10.5. Incompatible materials

CALCIUM CARBONATE Incompatible with: acids.

#### 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapors that are potentially dangerous to health may be released.

CALCIUM CARBONATE

May develop: calcium oxides, carbon oxides.



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# AES Guard (Part A)

# 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

# 11.1. Information on toxicological effects

<u>Metabolism, toxicokinetics, mechanism of action and other information</u> Information not available

Information on likely routes of exposure

TOLUENE

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

TOLUENE

Toxic effect on the central and peripheral nervous system with encephalopathy and polyneuritis; irritating for the skin, conjunctiva, cornea, and respiratory apparatus.

# Interactive effects

TOLUENE Certain drugs and other industrial products can interfere with the metabolism of the toluene.

ACUTE TOXICITY Epoxy resin (number average molecular weight <=700) LD50 (Oral) 11500 mg/kg Rat

CALCIUM CARBONATE LD50 (Oral) 6450 mg/kg Rat

TOLUENE LD50 (Dermal) 12124 mg/kg Rabbit

2,3-Epoxypropyl neodecanoate LD50 (Oral) 9600 mg/kg Rat

SKIN CORROSION / IRRITATION

Causes skin irritation.



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### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation.

#### **RESPIRATORY OR SKIN SENSITISATION**

Sensitizing for the skin.

# GERM CELL MUTAGENICITY

Suspected of causing genetic defects.

#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class This product is not considered to be a carcinogen by IARC, ACGIH, NTP, and OSHA.

#### TOLUENE

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 1999). The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential."

# <u>REPRODUCTIVE TOXICITY</u> Suspected of damaging fertility or the unborn child

<u>STOT - SINGLE EXPOSURE</u> Does not meet the classification criteria for this hazard class

<u>STOT - REPEATED EXPOSURE</u> May cause damage to organs.

# ASPIRATION HAZARD

Toxic for aspiration

# 12. Ecological information

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it has negative effects on aquatic environment.

#### 12.1. Toxicity

Epoxy resin (number average molecular weig	ht <=700)
LC50 - for Fish	1.3 mg/l/96h
EC50 - for Algae / Aquatic Plants	> 2.1 mg/l/72h Daphnia
Chronic NOEC for Crustacea	0.3 mg/l 21 d
2,3-Epoxypropyl neodecanoate	
LC50 - for Fish	9.6 mg/l/96h
EC50 - for Crustacea	4.8 mg/l/48h



<b>12.2. Persistence and degradability</b> CALCIUM CARBONATE Solubility in water	0.1 - 100 mg/l
TALC	
Solubility in water	< 0.1 mg/l
TOLUENE	
Solubility in water	100 - 1000 mg/l
Degradability:	Rapidly degradable
12.3. Bioaccumulative potential	
TOLUENE	
Partition coefficient: n-octanol/water	2.73
BCF	90
12.4. Mobility in soil	
Information not available	
12.5. Results of PBT and vPvB assessment	

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0.1%.

# 12.6. Other adverse effects

Information not available

# 13. Disposal considerations

# 13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste. Disposal must be performed through an authorized waste management firm, in compliance with national and local regulations.

# CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

# 14. Transport information

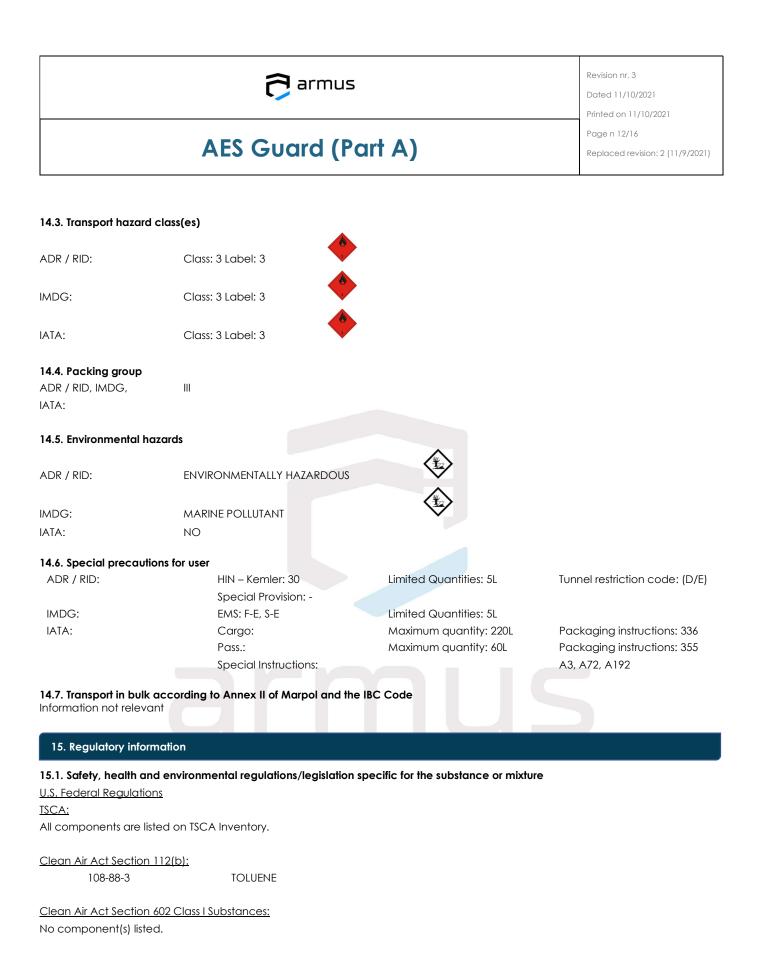
# 14.1. UN number

ADR / RID, IMDG, IATA:

# 14.2. UN proper shipping name

ADR / RID:	PAINT
IMDG:	PAINT (EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT 700))
IATA:	PAINT

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<u>Clean Air Act Section 602 Class II Su</u> No component(s) listed.	ubstances:
<u>Clean Water Act</u> <u>Priority Pollutants:</u> 108-88-3	TOLUENE
<u>Clean Water Act</u> <u>Toxic Pollutants:</u> 108-88-3	TOLUENE
DEA List I Chemicals (Precursor Che No component(s) listed.	emicals):
DEA List II Chemicals (Essential Cher No component(s) listed.	micals):
EPA List of Lists: 313 Category Code: 108-88-3	TOLUENE
EPCRA 302 EHS TPQ: No component(s) listed.	
EPCRA 304 EHS RQ: No component(s) listed.	
CERCLA RQ: 108-88-3	TOLUENE
EPCRA 313 TRI: 108-88-3	TOLUENE
RCRA Code: 108-88-3	TOLUENE
CAA 112 (r) RMP TQ: No component(s) listed.	
<u>State Regulations</u> Massachusetts: 14807-96-6 108-88-3	TALC TOLUENE

Minnes	sota:		
	14807-96-6	TALC	
	108-88-3	TOLUENE	
New Je	ersey:		
	14807-96-6	TALC	
	108-88-3	TOLUENE	
New Y	ork:		
	108-88-3	TOLUENE	
Pennsy	Ivania:		
	108-88-3	TOLUENE	
Califor	nia:		
	14807-96-6	TALC	
	108-88-3	TOLUENE	

# Proposition 65:

WARNING: This product contains chemicals known to the State of California to cause cancer, reproductive harm or birth defects. 108-88-3 TOLUENE

#### International Regulations

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012: None

Substances subject to the Rotterdam Convention: None

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Substances subject to the Stockholm Convention:
None
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# 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

- H225 Highly flammable liquid and vapor.
- H226 Flammable liquid and vapor.
- H341 Suspected of causing genetic defects.
- H361 Suspected of damaging fertility or the unborn child.
- H304 May be fatal if swallowed and enters airways.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H319 Causes serious eye irritation.
- H315 Causes skin irritation.



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# AES Guard (Part A)

H317May cause an allergic skin reaction.H336May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

LEGEND:

- 313 CATEGORY CODE: Emergency Planning and Community Right-to Know Act Section 313 Category Code
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAA 112 ® RMP TQ: Risk Management Plan Threshold Quantity (Clean Air Act Section 112®)
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CERCLA RQ: Reportable Quantity (Comprehensive Environment Response, Compensation, and Liability Act)
- CLP: EC Regulation 1272/2008
- DEA: Drug Enforcement Administration
- EmS: Emergency Schedule
- EPA: US Environmental Protection Agency
- EPCRA: Emergency Planning and Community Right-to Know Act
- EPCRA 302 EHS TPQ: Extremely Hazardous Substance Threshold Planning Quantity (Section 302 Category Code)
- EPCRA 304 EHS RQ: Extremely Hazardous Substance Reportable Quantity (Section 304 Category Code)
- EPCRA 313 TRI: Toxics Release Inventory (Section 313 Category Code)
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PEL: Predicted exposure level
- RCRA Code: Resource Conservation and Recovery Act Code
- REL: Recommended exposure limit
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TSCA: Toxic Substances Control Act
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- WHMIS: Workplace Hazardous Materials Information System.

# GENERAL BIBLIOGRAPHY:

- GHS rev. 3
- The Merck Index. 10th Edition
- Handling Chemical Safety
- Niosh Registry of Toxic Effects of Chemical Substances



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# AES Guard (Part A)

- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy
- 6 NYCRR part 597
- Cal/OSHA website
- California Safe Drinking Water and Toxic Enforcement Act
- EPA website
- Hazard Communication Standard (HCS 2012)
- IARC website
- List Of Lists EPA: Consolidated List of Chemicals Subject to EPCRA, CERCLA and Section 112® of the Clean Air Act
- Massachusetts 105 CMR Department of public health 670.000: "Right to Know"
- Minnesota Chapter 5206 Department of Labor and Industry Hazardous Substances, Employee "Right to Know".
- New Jersey Worker and Community Right to know Act N.J.S.A.
- NTP. 2011. Report on Carcinogens, 12th Edition.
- OSHA website
- Pennsylvania, Hazardous Substance List, Chapter 323

# Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

# CALCULATION METHODS FOR CLASSIFICATION

Product classification derives from criteria established by the OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200), unless determined otherwise in Section 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.

Changes to previous review: The following sections were modified: 01



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# Safety Data Sheet

According to U.S.A. Federal Hazcom 2012

1. Identification	
<b>1.1. Product identifier</b> Code: Product name	Armus_GA_010920-047 AES Guard (Part B)
1.2. Relevant identified uses of the substance or mIntended useAsphalt Epoxy Sealer - Part B -	-
1.3. Details of the supplier of the safety data sheet	
Name	Armus LLC
Full address	137 Grand Street 3rd floor NY
District and Country	NY 10013
	United States
	Tel. (+1) 9179575383
e-mail address of the competent person	
responsible for the Safety Data Sheet	bill@armussolutions.com
1.4. Emergency telephone number	
For urgent inquiries refer to	Tel. (+1) 9179575383 United States

#### 2.1. Classification of the substance or mixture

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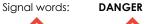
Classification and Hazard Statement



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Hazard pictograms:

Reproductive toxicity, category 2 Acute toxicity, category 4 Acute toxicity, category 4 Skin corrosion, category 1 Serios eye damage, category 1 Skin sensitization, category 1 Hazardous to the aquatic environment, chronic toxicity, category 3 Suspected of damaging fertility or the unborn child. Harmful if swallowed. Harmful if inhaled Causes severe skin burns and eye damage. Causes serious eye damage May cause an allergic skin reaction. Harmful to aquatic life with long-lasting effects







#### Hazard statements:

siuleilleills.	
H361	Suspected of damaging fertility or the unborn child.
H302	Harmful if swallowed.
H332	Harmful if inhaled.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H317	May cause an allerg <mark>ic skin reac</mark> tion.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements:

#### Prevention:

iloni.	
P260	Do not breathe fume, mist, or spray.
P202	Do not handle until all safety precautions have been read and understood.
P201	Obtain special instructions before use.
P280	Wear protective gloves/ protective clothing / eye protection / face protection.
P270	Do not eat, drink, or smoke when using this product.
271	Use only outdoors or in a well-ventilated area.
P264	Wash with plenty of water and soap thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.

#### 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.
P310	Immediately contact a POISON CONTROL CENTER or a doctor.



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P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P330	Rinse mouth.
P302+P352	IF ON SKIN: Wash with plenty of water /
P301+P312	IF SWALLOWED: Call a POISON CENTER / doctor / / if you feel unwell.
P363	Wash contaminated clothing before reuse.

# Storage:

P405 Store locked up.

#### Disposal:

P501

Dispose of contents or container according to local/national/international regulations.

# 2.2 Other hazards

Information not available.

3. Composition / information on ingredients		
3.1. Mixtures		
Contains:		
Identification	Conc. %	Classification:
BENZYL ALCOHOL	37.5	Acute toxicity, category 4 H302, Acute toxicity, category 4 H332
CAS 100-51-6		
EC 202-859-9		
INDEX 603-057-00-5		
Phenol, 4,4'-(1-methylethylidene)bis-,polymer	30	Skin corrosion, category 1B H314, Serious eye damage, category 1 H318,
with 5-amino-1,3,3-		Skin sensitization, category 1 H317, Hazardous to the aquatic
trimethylcyclohexamethanamine and		environment, chronic toxicity, category 3 H412
(chloromethyl)oxirane		
CAS 38294-64-3		
EC 500-101-4		
INDEX		
3-AMINOMETHYL 3,5,5-	30	Acute toxicity, category 4 H302, Acute toxicity, category 4 H312, Skin
TRIMETHYLCYCLOHEXYLAMINE		corrosion, category 1B H314, Serious eye damage, category 1 H318, Skin
CAS 2855-13-2		sensitization, category 1 H317, Hazardous to the aquatic environment,
EC 220-666-8		chronic toxicity, category 3 H412
INDEX 612-067-00-9		
SALICYC ACID	2.5	Reproductive toxicity, category 2 H361, Acute toxicity, category 4 H302,
CAS 69-72-7		Serious eye damage, category 1 H318
EC 200-712-3		
INDEX		



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The full wording of hazard (H) phrases is given in section 16 of the sheet.

# 4. First-aid measures

# 4.1. Description of first aid measures

EYES: Remove contact lenses if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorized by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

# 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Information not available

# 5. Fire-fighting measures

#### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder, and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

#### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

# 5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

# SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal firefighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).



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# 6. Accidental release measures

# 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

# 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

# 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

# 7. Handling and storage

#### 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink, or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

# 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well-ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

# 7.3. Specific end use(s)

Information not available

# 8. Exposure controls / personal protection

#### 8.1. Control parameters

Information not available.

#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must comply with current regulations.

#### HAND PROTECTION

Protect hands with category III work gloves (OSHA 29 CFR 1910.138).



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The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability. The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

# SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear. Wash body with soap and water after removing protective clothing.

# EYE PROTECTION

Wear airtight protective goggles (OSHA 29 CFR 1910.133).

# RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a NIOSH certified filter, whose limit of use will be defined by the manufacturer (NIOSH 42 CFR 84, OSHA 29 CFR 1910.134). In the presence of gases or vapors of various kinds and/or gases or vapors containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odorless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus or external air-intake breathing apparatus. For a correct choice of respiratory protection device, see standard NIOSH 42 CFR 84, OSHA 29 CFR 1910.134.

# ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with wastewater or by dumping in waterways.

# 9. Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Appearance	Liquid
Color	Not available
Odor	Not available
Odor threshold	Not available
рН	Not available
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	> 93° C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Lower inflammability limit	Not available
Upper inflammability limit	Not available



Lower explosive limit	Not available
Upper explosive limit	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	Not available
Solubility	Not available
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidizing properties	Not available

### 9.2. Other information

Information not available.

# 10. Stability and reactivity

#### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

BENZYL ALCOHOL Decomposes at temperatures above 870°C/1598°F. Possibility of explosion.

#### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

### BENZYL ALCOHOL

May react dangerously with: hydrobromic acid, iron, oxidizing agents, sulphuric acid. Risk of explosion on contact with: phosphorus trichloride.

3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE May react dangerously with: strong oxidizing agents, concentrated inorganic acids.

#### 10.4. Conditions to avoid

Non in particular. However, the usual precautions used for chemical products should be respected.

# BENZYL ALCOHOL

Avoid exposure to: air, sources of heat, open flames.

3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE Avoid contact with: sulphuric acid, oxidizing substances, aluminum. Revision nr. 2 Dated 11/10/2021 Printed on 11/10/2021 Page n 7/14 Replaced revision: 1 (11/9/2021)



10.5. Incompatible materials

BENZYL ALCOHOL Incompatible with: sulphuric acid, oxidizing, substances, aluminum.

### 10.6. Hazardous decomposition products

Information not available.

# 11. Toxicological information

# 11.1. Information on toxicological effects Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure Information not available

Interactive effects Information not available

ACUTE TOXICITY BENZYL ALCOHOL LD50 (Oral) 1230 mg/kg Rat LD50 (Dermal) 2000 mg/kg Rabbit LC50 (Inhalation) > 4.1 mg/l/4h Rat

SKIN CORROSION / IRRITATION Corrosive for the skin.

<u>SERIOUS EYE DAMAGE / IRRITATION</u> Causes serious eye damage.

<u>RESPIRATORY OR SKIN SENSITISATION</u> Sensitizing for the skin.

<u>GERM CELL MUTAGENICITY</u> Does not meet the classification criteria for this hazard class.

<u>CARCINOGENICITY</u> Does not meet the classification criteria for this hazard class. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, and OSHA. <u>REPRODUCTIVE TOXICITY</u> Revision nr. 2 Dated 11/10/2021 Printed on 11/10/2021 Page n 8/14 Replaced revision: 1 (11/9/2021)



Suspected of damaging fertility or the unborn child

<u>STOT - SINGLE EXPOSURE</u> Does not meet the classification criteria for this hazard class

<u>STOT - REPEATED EXPOSURE</u> Does not meet the classification criteria for this hazard class

<u>ASPIRATION HAZARD</u>

Does not meet the classification criteria for this hazard class

# 12. Ecological information

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it has negative effects on aquatic environment.

# 12.1. Toxicity

Degradability:

Information not available.

#### 12.2. Persistence and degradability

BENZYL ALCOHOL Degradability:

Rapidly degradable

NOT rapidly degradable

3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE Solubility in water 1000-10,000 mg/l

**12.3. Bioaccumulative potential** BENZYL ALCOHOL Partition coefficient: n-octanol/water

**12.4. Mobility in soil** Information not available

#### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0.1%.

# 12.6. Other adverse effects

Information not available

### 13. Disposal considerations

### 13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

1.1

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Disposal must be performed through an authorized waste management firm, in compliance with national and local regulations.

# CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

14. Transport information	1		
14.1. UN number			
ADR / RID, IMDG,	2289		
IATA:			
14.2. UN proper shipping no	ame		
ADR / RID:	ISOPHORONEDIAMINE SOLUTION		
IMDG:	ISOPHORONEDIAMINE SOLUTION		
IATA:	ISOPHORONEDIAMINE SOLUTION		
14.3. Transport hazard class	s(es)		
ADR / RID:	Class: 8 Label: 8		
IMDG:	Class: 8 Label: 8		
IATA:	Class: 8 Label: 8		
14.4. Packing group			
ADR / RID, IMDG,	III		
IATA:			
14.5. Environmental hazard	ds		
ADR / RID:	NO		
IMDG:	NO		
IATA:	NO		
14.6. Special precautions for	or user		
ADR / RID:	HIN – Kemler: 30	Limited Quantities: 5L	Tunnel restriction code: (E)
	Special Provision: -		
IMDG:	EMS: F-A, S-B	Limited Quantities: 5L	
IATA:	Cargo:	Maximum quantity: 60L	Packaging instructions: 856
	Pass.:	Maximum quantity: 5L	Packaging instructions: 852
	Special Instructions:	A803	

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code** Information not relevant



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# 15. Regulatory information

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

<u>U.S. Federal Regulations</u> <u>TSCA:</u> All components are listed on TSCA Inventory.

<u>Clean Air Act Section 112(b):</u> No component(s) listed.

<u>Clean Air Act Section 602 Class I Substances:</u> No component(s) listed.

<u>Clean Air Act Section 602 Class II Substances:</u> No component(s) listed.

<u>Clean Water Act</u> <u>Priority Pollutants:</u> No component(s) listed.

<u>Clean Water Act</u> <u>Toxic Pollutants:</u> No component(s) listed.

DEA List I Chemicals (Precursor Chemicals): No component(s) listed.

DEA List II Chemicals (Essential Chemicals): No component(s) listed.

EPA List of Lists: 313 Category Code: No component(s) listed.

EPCRA 302 EHS TPQ: No component(s) listed.

EPCRA 304 EHS RQ: No component(s) listed.

CERCLA RQ: No component(s) listed.

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EPCRA 313 TRI: No component(s) listed.		
RCRA Code: No component(s) listed.		
CAA 112 (r) RMP TQ: No component(s) listed.		
<u>State Regulations</u> Massachusetts: 100-51-6	BENZYL ALCOHOL	
Minnesota: 100-51-6	BENZYL ALCOHOL	
New Jersey: 100-51-6 2855-13-2	BENZYL ALCOHOL TRIMETHYLCYCLOHEXYLAMINE	
New York: No component(s) listed.		
Pennsylvania: 100-51-6	BENZYL ALCOHOL	
California: No component(s) listed.		
Proposition 65: This product does not contain any substance	s known to the State of California to cause cancer, reproduc	ctive harm or birth defects.
International Regulations Substances subject to exportation reporting p None	oursuant to (EC) Reg. 649/2012:	
<u>Substances subject to the Rotterdam Conver</u> None	ntion:	
<u>Substances subject to the Stockholm Conver</u> None	tion:	



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# 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

- H361 Suspected of damaging fertility or the unborn child.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H332 Harmful if inhaled.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H317 May cause an allergic skin reaction.
- H412 Harmful to aquatic life with long lasting effects.

# LEGEND:

- 313 CATEGORY CODE: Emergency Planning and Community Right-to Know Act Section 313 Category Code
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAA 112 ® RMP TQ: Risk Management Plan Threshold Quantity (Clean Air Act Section 112®)
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CERCLA RQ: Reportable Quantity (Comprehensive Environment Response, Compensation, and Liability Act)
- CLP: EC Regulation 1272/2008
- DEA: Drug Enforcement Administration
- EmS: Emergency Schedule
- EPA: US Environmental Protection Agency
- EPCRA: Emergency Planning and Community Right-to Know Act
- EPCRA 302 EHS TPQ: Extremely Hazardous Substance Threshold Planning Quantity (Section 302 Category Code)
- EPCRA 304 EHS RQ: Extremely Hazardous Substance Reportable Quantity (Section 304 Category Code)
- EPCRA 313 TRI: Toxics Release Inventory (Section 313 Category Code)
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PEL: Predicted exposure level
- RCRA Code: Resource Conservation and Recovery Act Code
- REL: Recommended exposure limit
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TSCA: Toxic Substances Control Act
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit



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- VOC: Volatile organic Compounds

- WHMIS: Workplace Hazardous Materials Information System.

# GENERAL BIBLIOGRAPHY:

- GHS rev. 3
- The Merck Index. 10th Edition
- Handling Chemical Safety
- Niosh Registry of Toxic Effects of Chemical Substances
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy
- 6 NYCRR part 597
- Cal/OSHA website
- California Safe Drinking Water and Toxic Enforcement Act
- EPA website
- Hazard Communication Standard (HCS 2012)
- IARC website
- List Of Lists EPA: Consolidated List of Chemicals Subject to EPCRA, CERCLA and Section 112® of the Clean Air Act
- Massachusetts 105 CMR Department of public health 670.000: "Right to Know"
- Minnesota Chapter 5206 Department of Labor and Industry Hazardous Substances, Employee "Right to Know".
- New Jersey Worker and Community Right to know Act N.J.S.A.
- NTP. 2011. Report on Carcinogens, 12th Edition.
- OSHA website
- Pennsylvania, Hazardous Substance List, Chapter 323

# Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

# CALCULATION METHODS FOR CLASSIFICATION

Product classification derives from criteria established by the OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200), unless determined otherwise in Section 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.

Changes to previous review: The following sections were modified: 01