Safety Data Sheet



Date of Issue: 01/01/2023 R1

'AEROFLEX® AEROSEAL (AMBER, BLACK)

Page 1/12

1 Identification

· Product identifier

- · Product name: AEROFLEX® Aeroseal (Amber, Black) Rubber Contact Adhesive
- · Synonyms: Aeroseal (Amber, Black)
- Manufacturer/Supplier: Aeroflex USA, Inc. 282 Industrial Park, Rd., Sweetwater, TN 37874 Phone: Toll Free 1-866-237-6235
- Emergency telephone number: ChemTel Inc. 1-Ì €€-255-3924 (North America)
- 1-813-248-0585 (International)

2 Hazard(s) identification

· Classification of the substance or mixture

Flam. Liq. 2 H225 Highly flammable liquid and vapor.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Repr. 2 H361 Suspected of damaging fertility or the unborn child. Route of exposure: Inhalation.

STOT SE 3 H336 May cause drowsiness or dizziness.

STOT RE 2 H373 May cause damage to the nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

· Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms:



· Signal word: Danger

· Hazard statements:

H225 Highly flammable liquid and vapor.

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H361 Suspected of damaging fertility or the unborn child. Route of exposure: Inhalation.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to the nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.



Page 2/12

Safety Data Sheet - AEROFLEX [®] Aeroseal (Amber, Black)		
H304 May be fat	tal if swallowed and enters airways.	
· Precautionary		
P201	Obtain special instructions before use.	
P202	Do not handle until all safety precautions have been read and understood.	
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.	
P233	Keep container tightly closed.	
P240	Ground/bond container and receiving equipment.	
P241	Use explosion-proof electrical/ventilating/lighting/equipment.	
P242	Use only non-sparking tools.	
P243	Take precautionary measures against static discharge.	
P260	Do not breathe mist/vapors/spray.	
P264	Wash thoroughly after handling.	
P271	Use only outdoors or in a well-ventilated area.	
P280	Wear protective gloves/protective clothing/eye protection.	
P301+P310	If swallowed: Immediately call a poison center/doctor.	
P331	Do NOT induce vomiting.	
P303+P361+P3	53 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+P3	38 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if	
	present and easy to do. Continue rinsing.	
P308+P313	IF exposed or concerned: Get medical advice/attention.	
P312	Call a poison center/doctor if you feel unwell.	
P332+P313	If skin irritation occurs: Get medical advice/attention.	
P362+P364	Take off contaminated clothing and wash it before reuse.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P370+P378	In case of fire: Use foam, powder, or carbon dioxide for extinction.	
P403+P235	Store in a well-ventilated place. Keep cool.	
P405	Store locked up.	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.	
· Other hazards	There are no other hazards not otherwise classified that have been identified.	

3 Composition/information on ingredients

· Chemical characterization: Mixtures

110-54-3	n-hexane	 Flam. Liq. 2, H225 Repr. 2, H361; STOT RE 2, H373; Asp. Tox. 1, H304 Skin Irrit. 2, H315; STOT SE 3, H336 Eye Irrit. 2B, H320 	25-50
67-64-1	Acetone	 Flam. Liq. 2, H225 Eye Irrit. 2A, H319; STOT SE 3, H336 	25-50
108-88-3	Toluene	 Flam. Liq. 2, H225 Repr. 2, H361; STOT RE 2, H373; Asp. Tox. 1, H304 Skin Irrit. 2, H315; STOT SE 3, H336 	10-25
1309-48-4	Magnesium oxide		<2.5%



Page 3/12

Safety Data Sheet - AEROFLEX[®] Aeroseal (Amber, Black)

For the wording of the listed Hazard Statements, refer to section 16. For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. 4 First-aid measures Description of first aid measures · After inhalation: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation. · After skin contact: Immediately remove any clothing soiled by the product. Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor. · After eye contact: Remove contact lenses if worn. Rinse opened eye for several minutes under running water. Then consult a doctor. · After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help. A person vomiting while lying on their back should be turned onto their side. Most important symptoms and effects, both acute and delayed: Headache Dizziness Breathing difficulty Gastric or intestinal disorders Danger: Danger of convulsion. Danger of disturbed cardiac rhythm. Danger of impaired breathing. · Indication of any immediate medical attention and special treatment needed: If swallowed, gastric irrigation with added, activated carbon, Medical supervision for at least 48 hours.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents: Carbon dioxide
 Fire-extinguishing powder
 Foam
 Water fog / haze
- · For safety reasons unsuitable extinguishing agents: Waterstream.
- · Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.
- Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.



Page 4/12

Safety Data Sheet - AEROFLEX[®] Aeroseal (Amber, Black)

Wear fully protective suit. • Additional information: Cool endangered containers with water fog.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Keep away from ignition sources. Environmental precautions Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Methods and material for containment and cleaning up Allow to solidify. Pick up mechanically. Clean the affected area carefully; suitable cleaners are: Organic solvent Warm water and cleansing agent Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7 Handling and storage

· Handling

• **Precautions for safe handling:** Open and handle receptacle with care. Use only in well ventilated areas. Keep out of reach of children.

 Information about protection against explosions and fires: Protect from heat.
 Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges.

- \cdot Conditions for safe storage, including any incompatibilities
- **Requirements to be met by storerooms and receptacles:** Store in cool, dry conditions in well sealed receptacles.
- Information about storage in one common storage facility: Store away from foodstuffs. Store away from oxidizing agents.
- · Specific end use(s) No relevant information available.

8 Exposure controls/personal protection

Control parameters

· Components with limit values that require monitoring at the workplace:



Page 5/12

	Safety Data Sheet - AEROFLEX [®] Aeroseal (Amber, Black)
110-54-3 n-hexa	
PEL (USA)	Long-term value: 1800 mg/m³, 500 ppm
REL (USA)	Long-term value: 180 mg/m ³ , 50 ppm
TLV (USA)	Long-term value: 176 mg/m³, 50 ppm Skin; BEI
EL (Canada)	Long-term value: 20 ppm Skin
EV (Canada)	Long-term value: 176 mg/m ³ , 50 ppm
LMPE (Mexico)	Long-term value: 50 ppm PIEL, IBE
67-64-1 Aceton	e
PEL (USA)	Long-term value: 2400 mg/m ³ , 1000 ppm
REL (USA)	Long-term value: 590 mg/m ³ , 250 ppm
TLV (USA)	Short-term value: 1187 mg/m ³ , 500 ppm
	Long-term value: 594 mg/m ³ , 250 ppm BEI
EL (Canada)	Short-term value: 500 ppm
	Long-term value: 250 ppm
EV (Canada)	Short-term value: 750 ppm Long-term value: 500 ppm
LMPE (Mexico)	Short-term value: 750 ppm Long-term value: 500 ppm A4, IBE
108-88-3 Tolue	ne
PEL (USA)	Long-term value: 200 ppm
	Ceiling limit value: 300; 500*ppm *10-min peak per 8-hr shift
REL (USA)	Short-term value: 560 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm
TLV (USA)	Long-term value: 75 mg/m³, 20 ppm BEI
EL (Canada)	Long-term value: 20 ppm R
EV (Canada)	Long-term value: 20 ppm
LMPE (Mexico)	Long-term value: 20 ppm A4, IBE
1309-48-4 Mag	nesium oxide
PEL (USA)	Long-term value: 15* mg/m ³ fume; *total particulate
TLV (USA)	Long-term value: 10* mg/m³ *as inhalable fraction
EL (Canada)	Short-term value: 10** mg/m ³ Long-term value: 10* 3** mg/m ³ *inhalable fume;**respirable dust and fume
EV (Canada)	Long-term value: 10 mg/m ³



Page 6/12

	Safety Data Sheet - AEROFLEX [®] Aeroseal (Amber, Black)
LMPE (Mexico)	inhalable) Long-term value: 10* mg/m ³ A4, *fracción respirable
· Ingredients wi	ith biological limit values:
110-54-3 n-he	-
Tim	mg/L dium: urine ne: end of shift at end of workweek rameter: 2.5-Hexanedione without hydrolysis
67-64-1 Aceto	ne
Tim	mg/L dium: urine ne: end of shift rameter: Acetone (nonspecific)
108-88-3 Tolu	ene
Tim Par 0.0 Me Tim Par 0.3 Me Tim	2 mg/L dium: blood ne: prior to last shift of workweek rameter: Toluene 3 mg/L dium: urine ne: end of shift rameter: Toluene a mg/g creatinine dium: urine ne: end of shift rameter: o-Cresol with hydrolysis (background)
Keep away from Immediately re Wash hands be Avoid contact w Engineering c Breathing equination Not necessary Use suitable re Protection of I	ctive and hygienic measures: m foodstuffs, beverages and feed. emove all soiled and contaminated clothing. efore breaks and at the end of work. with the eyes and skin. controls: No relevant information available. lipment: if room is well-ventilated. espiratory protective device in case of insufficient ventilation. hands: ctive gloves erial has to be impermeable and resistant to the product/ the substance/ the preparation.



Page 7/12

Safety Data Sheet - AEROFLEX® Aeroseal (Amber, Black)



Safety glasses

· Body protection: Impervious protective clothing

9 Physical and chemical properties of the second se Second second se	erties
· Information on basic physical a	and chemical properties
· Appearance:	
Form:	Liquid
Color:	Amber colored
· Odor:	Mild
· Odor threshold:	Not determined.
· pH-value:	Not determined.
 Melting point/Melting range: 	Not determined.
 Boiling point/Boiling range: 	>35 °C (>95 °F)
· Flash point:	<23 °C (<73.4 °F)
· Flammability (solid, gaseous):	Not applicable.
· Auto-ignition temperature:	Not determined.
· Decomposition temperature:	Not determined.
· Danger of explosion:	Product is not explosive. However, formation of explosive air vapor mixtures are possible.
· Explosion limits	
Lower:	Not determined.
Upper:	Not determined.
 Oxidizing properties: 	Non-oxidizing.
· Vapor pressure:	Not determined.
· Density:	
Relative density:	0.81
Vapor density:	Not determined.
Evaporation rate:	Not determined.
\cdot Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/wa	ter): Not determined.
· Viscosity	
Dynamic:	Not determined.
Kinematic:	Not determined.
 Other information 	No relevant information available.



Page 8/12

Safety Data Sheet - AEROFLEX® Aeroseal (Amber, Black)

10 Stability and reactivity

· Reactivity: No relevant information available.

· Chemical stability:

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. To avoid thermal decomposition, do not overheat.

- Possibility of hazardous reactions Reacts with oxygen. Reacts with oxidizing agents. Develops readily flammable gases / fumes.
- Conditions to avoid No relevant information available.
- · Incompatible materials No relevant information available.
- Hazardous decomposition products Carbon monoxide and carbon dioxide Formaldehyde

11 Toxicological information

· Information on toxicological effects

- Acute toxicity: Based on available data, the classification criteria are not met.
- · LD/LC50 values that are relevant for classification: None.
- · Primary irritant effect:
- · On the skin: Irritant to skin and mucous membranes.
- · On the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

• NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

- Probable route(s) of exposure:
- Ingestion.
- Inhalation.

Eye contact.

Skin contact.

- · Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · Carcinogenicity: Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Suspected of damaging fertility or the unborn child. Route of exposure: Inhalation.
- STOT-single exposure: May cause drowsiness or dizziness.
- · STOT-repeated exposure:

May cause damage to the nervous system through prolonged or repeated exposure. Route of exposure: Inhalation.

• Aspiration hazard: May be fatal if swallowed and enters airways.



Page 9/12

Safety Data Sheet - AEROFLEX® Aeroseal (Amber, Black)

12 Ecological information

· Toxicity

- · Aquatic toxicity Toxic to aquatic life with long lasting effects.
- Persistence and degradability No relevant information available.
- · Bioaccumulative potential: No relevant information available.
- Mobility in soil: No relevant information available.
- · Additional ecological information
- · General notes: Do not allowproduct to reach ground water, water course or sewage system.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB:** Not applicable.
- · Other adverse effects No relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

· Uncleaned packagings

• Recommendation: Disposal must be made according to official regulations.

UN-Number		
DOT, ADR, IMDG, IATA	UN1133	
UN proper shipping name		
DOT, IATA	Adhesives	
ADR, IMDG	ADHESIVES	
Transport hazard class(es) DOT		
Class	3	
Label	3	



Page 10/12

Safety Data Sheet - AEROFLEX [®] Aeroseal (Amber, Black)	
ADR	
Class	3 (F1)
	3
IMDG, IATA	
Class Label	3 3
Packing group DOT, ADR, IMDG, IATA	II
Environmental hazards	Product contains environm entally hazardous
Marine pollutant:	substances: n-hexane
Yes	
Special precautions for user Danger code (Kemler):	Warning: Flammable liquids
EMS Number:	F-E, <u>S-E</u>
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	Labeling as a Marine Pollutant is only required for be single package shipments. Bulk packaging consists a maximum capacity of greater than 450 L (1 gallons) for a liquid and a maximum net mass grea than 400 kg (882 pounds) for a solid. (See 171.4(c))
Limited Quantity for packages less	than 30 kg gross and inner packagings less than 5 L each.
ADR	Marine pollutants packaged in single or combinati packagings containing a net quantity per single or inr packaging of 5 L or less for liquids or having a r mass per single or inner packaging of 5 kg or less solids are not subject to provisions relevant to mari pollutants. (See 5.2.1.8.1)



Page 11/12

Safety Data Sheet - AEROFLEX® Aeroseal (Amber, Black) Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each. Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids are not subject to provisions relevant to marine pollutants. (See 2.10.2.7) Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each. IATA Limited Quantity for packages less than 30 kg gross and inner packagings less than 0.5 L each / 1 L net.

Safety, mixture	health and environmental regulations/legislation specific for the substance of
	States (USA)
SARA	
	302 (extremely hazardous substances):
None of	the ingredients are listed.
Section	355 (extremely hazardous substances):
None of	the ingredients are listed.
Section	313 (Specific toxic chemical listings):
110-54-3	3 n-hexane
108-88-3	3 Toluene
TSCA (1	Toxic Substances Control Act)
All ingre	dients are listed.
Proposi	tion 65 (California)
Chemic	als known to cause cancer:
None of	the ingredients are listed.
Chemic	als known to cause developmental toxicity for females:
None of	the ingredients are listed.
Chemic	als known to cause developmental toxicity for males:
110-54-3	3 n-hexane
Chemic	als known to cause developmental toxicity:



Page 12/12

II

| ||

Safety Data Sheet - AEROFLEX® Aeroseal (Amber, Black)

108-88-3 Toluene

· EPA (Environmental Protection Agency):

110-54-3 n-hexane

67-64-1 Acetone

108-88-3 Toluene

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

· Canadian Domestic Substances List (DSL):

All ingredients are listed.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Date of preparation / last revision May 11, 2018 / -

Abbreviations and acronyms: ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistant, Bio-accumulable, Toxic vPvB: very Persistent and very Bioaccumulative OSHA: Occupational Safety & Health Administration Flam. Liq. 2: Flammable liquids - Category 2 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A Eye Irrit. 2B: Serious eye damage/eye irritation - Category 2B Repr. 2: Reproductive toxicity - Category 2 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 Asp. Tox. 1: Aspiration hazard - Category 1 Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers