

SAFETY DATA SHEET**FLASH-TAK SPRAY ADHESIVE 600ML**

Version Number 1.0
Revision Date 04/14/2022

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SAFETY DATA SHEET**FLASH-TAK SPRAY ADHESIVE 600ML****Section 1. Identification**

GHS product identifier : FLASH-TAK SPRAY ADHESIVE 600ML
Chemical name : Mixture
CAS number : Mixture
Other means of identification : FO20036638
Product type : liquid

Relevant identified uses of the substance or mixture and uses advised against

Product use : Industrial applications. Plastics.

Supplier's details : **AVIENT CORPORATION**
 33587 Walker Road, Avon Lake, OH 44012
 1 (440) 930-1000 or 1 (844) 4AVIENT

Emergency telephone number (with hours of operation) : CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

Section 2. Hazards identification

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. After handling, always wash hands thoroughly with soap and water.

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE AEROSOLS - Category 2
 GASES UNDER PRESSURE - Compressed gas
 SKIN IRRITATION - Category 2
 EYE IRRITATION - Category 2A
 CARCINOGENICITY - Category 1A
 TOXIC TO REPRODUCTION - Category 2


GHS label elements

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- Hazard pictograms** : 
- Signal word** : Danger
- Hazard statements** :
 : Flammable aerosol.
 : Contains gas under pressure; may explode if heated.
 : Causes skin irritation.
 : Causes serious eye irritation.
 : May cause cancer.
 : Suspected of damaging fertility or the unborn child.

Precautionary statements

- Prevention** :
 : Not applicable.
 : Obtain special instructions before use. Wear protective gloves. Wear protective clothing. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Wash thoroughly after handling. Pressurized container: Do not pierce or burn, even after use.
- Response** :
 : IF exposed or concerned: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
- Storage** :
 : Do not expose to temperatures exceeding 50 °C/122 °F.
- Disposal** :
 : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Supplemental label elements** :
 : None known.
- Hazards not otherwise classified** :
 : None known.
 : Not available.

Section 3. Composition/information on ingredients

- Substance/mixture** : Mixture
- Chemical name** : Mixture
- Other means of identification** : FO20036638

CAS number/other identifiers

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Ingredient name	%	CAS number
Acetone	>= 10 - <= 25	67-64-1
Methane, dimethoxy-	>= 10 - <= 25	109-87-5
Xylenes (o-, m-, p- isomers)	>= 5 - <= 10	1330-20-7
HEPTANE	>= 5 - <= 10	2-54-0
Ethyl alcohol	>= 0.3 - < 1	64-17-5
Hexane	>= 0.3 - < 1	110-54-3
2-Ethylhexyl acrylate	>= 0.3 - < 1	103-11-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious,

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give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed**Potential acute health effects**

- Eye contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes skin irritation.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
reduced fetal weight
increase in fetal deaths
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
reduced fetal weight
increase in fetal deaths
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

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- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : In case of fire, use water spray (fog), foam, dry chemical or CO₂.
Unsuitable extinguishing media : None known.

- Specific hazards arising from the chemical** : Flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the

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- instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage**Precautions for safe handling**

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing gas. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from

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- heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Store in a well-ventilated place. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Acetone	<p>OSHA PEL 1989 (1989-03-01) TWA 1,800 mg/m3 750 ppm OSHA PEL 1989 (1989-03-01) STEL 2,400 mg/m3 1,000 ppm OSHA PEL (1993-06-30) TWA 2,400 mg/m3 1,000 ppm NIOSH REL (1994-06-01) TWA 590 mg/m3 250 ppm ACGIH TLV (2015-03-16) TWA 250 ppm STEL 500 ppm</p>
Methane, dimethoxy-	<p>ACGIH TLV (1994-09-01) TWA 3,110 mg/m3 1,000 ppm NIOSH REL (1994-06-01) TWA 3,100 mg/m3 1,000 ppm OSHA PEL 1989 (1989-03-01) TWA 3,100 mg/m3 1,000 ppm OSHA PEL (1993-06-30) TWA 3,100 mg/m3 1,000 ppm</p>

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Xylenes (o-, m-, p- isomers)	<p>OSHA PEL (1993-06-30) TWA 435 mg/m3 100 ppm OSHA PEL 1989 (1989-03-01) TWA 435 mg/m3 100 ppm STEL 655 mg/m3 150 ppm ACGIH TLV (1996-05-18) TWA 434 mg/m3 100 ppm STEL 651 mg/m3 150 ppm</p>
HEPTANE	None.
Ethyl alcohol	<p>OSHA PEL 1989 (1989-03-01) TWA 1,900 mg/m3 1,000 ppm OSHA PEL (1993-06-30) TWA 1,900 mg/m3 1,000 ppm NIOSH REL (1994-06-01) TWA 1,900 mg/m3 1,000 ppm ACGIH TLV (2008-11-24) STEL 1,000 ppm</p>
Hexane	<p>OSHA PEL 1989 (1989-03-01) TWA 180 mg/m3 50 ppm OSHA PEL (1993-06-30) TWA 1,800 mg/m3 500 ppm NIOSH REL (1994-06-01) TWA 180 mg/m3 50 ppm ACGIH TLV (1998-09-01) Absorbed through skin. TWA 50 ppm</p>
2-Ethylhexyl acrylate	None.

- Appropriate engineering controls** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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Individual protection measures

- Hygiene measures** :
- Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** :
- Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

- Hand protection** :
- Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** :
- Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product., When there is a risk of ignition from static electricity, wear anti-static protective clothing., For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
- Other skin protection** :
- Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** :
- Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties**Appearance**

- Physical state** :
- liquid [aerosol]

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Color : NO PIGMENT
Odor : Solvent.
Odor threshold : Not available.
pH : Not available.
Melting point : Not available.
Boiling point : Not available.
Flash point : Closed cup: -40 °C (-40 °F)

Burning time : Not available.
Burning rate : Not available.
Evaporation rate : Not available.
Flammability (solid, gas) : Not available.
Lower and upper explosive (flammable) limits : **Lower:** 0.8 %(V)
Upper: 19.9 %(V)

Vapor pressure : Not available.
Vapor density : Not available.
Relative density : 0.682

Solubility : Not available.
Solubility in water : insoluble in water.

Partition coefficient: n-octanol/water : Not available.
Auto-ignition temperature : 237 °C (459 °F)

Decomposition temperature : Not available.
SADT : Not available.
Viscosity : **Dynamic:** Not available.
Kinematic: Not available.

Aerosol product

Type of aerosol : Spray
Heat of combustion : 12450000 J/kg

Ignition distance : 45 cm

Enclosed space ignition - Time equivalent : Not available.

Enclosed space ignition - Deflagration density : Not available.

Flame height : Not available.

Flame duration : Not available.

Section 10. Stability and reactivity

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- Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- Chemical stability** : Stable under recommended storage and handling conditions (see Section 7).
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : Avoid all possible sources of ignition (spark or flame).
- Incompatible materials** : Keep away from strong acids.
Oxidizer.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-Propanone				
	LD50 Oral	Rat	5,800 mg/kg	-
Methane, dimethoxy-				
	LD50 Oral	Rat	6,653 mg/kg	-
Benzene, dimethyl-				
	LD50 Oral	Rat	4,300 mg/kg	-
	LC50 Inhalation Gas.	Rat	5,000 ppm	4 h
HEPTANE				
	LD50 Oral	Rat	> 5,840 mg/kg	-
	LC50 Inhalation Dusts and mists	Rat	> 23.3 Mg/l	4 h
	LD50 Dermal	Rat	> 2,800 mg/kg	-
Ethanol				
	LD50 Oral	Rat	7,000 mg/kg	-
	LC50 Inhalation Vapor	Rat	124.7 Mg/l	4 h
Hexane				
	LD50 Oral	Rat	15,840 mg/kg	-
	LC50 Inhalation Gas.	Rat	48,000 ppm	4 h
2-Propenoic acid, 2-ethylhexyl ester				
	LD50 Oral	Rat	6,700 mg/kg	-

Conclusion/Summary : Mixture. Not fully tested.

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Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-Propanone	Eyes - Severe irritant	Rabbit	-		-
	Skin - Mild irritant	Rabbit	-		-
	Skin - Mild irritant	Rabbit	-	24 hrs	-
	Eyes - Moderate irritant	Rabbit	-	24 hrs	-
	Eyes - Mild irritant	Rabbit	-		-
	Eyes - Mild irritant	Human	-		-
Methane, dimethoxy-	Eyes - Moderate irritant	Rabbit	-		-
Benzene, dimethyl-	Skin - Mild irritant	Rat	-	8 hrs	-
	Skin - Moderate irritant	Rabbit	-		-
	Skin - Moderate irritant	Rabbit	-	24 hrs	-
	Eyes - Mild irritant	Rabbit	-		-
	Eyes - Severe irritant	Rabbit	-	24 hrs	-
HEPTANE	Skin - Moderate irritant	Rabbit	-		-
Ethanol	Eyes - Moderate irritant	Rabbit	-		-
	Skin - Mild irritant	Rabbit	-		-
	Skin - Moderate irritant	Rabbit	-	24 hrs	-
	Eyes - Severe irritant	Rabbit	-		-
	Eyes - Mild irritant	Rabbit	-	24 hrs	-
	Eyes - Moderate irritant	Rabbit	-	0.001 hrs	-
Hexane	Eyes - Mild irritant	Rabbit	-		-
2-Propenoic acid, 2-ethylhexyl ester	Eyes - Mild irritant	Rabbit	-	24 hrs	-
	Skin - Moderate irritant	Rabbit	-	24 hrs	-
	Skin - Mild irritant	Rabbit	-		-
	Skin - Severe irritant	Rabbit	-	24 hrs	-
	Eyes - Severe irritant	Rabbit	-		-

Conclusion/Summary

Skin : Mixture. Not fully tested.
Eyes : Mixture. Not fully tested.
Respiratory : Mixture. Not fully tested.

Sensitization

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Conclusion/Summary

Skin : Mixture.Not fully tested.
Respiratory : Mixture.Not fully tested.

Mutagenicity

Conclusion/Summary : Mixture.Not fully tested.

Carcinogenicity

Conclusion/Summary : Mixture.Not fully tested.

Classification

Product/ingredient name	OSHA	IARC	NTP
Benzene, dimethyl-	-	3	-
Ethanol	-	1	-
2-Propenoic acid, 2-ethylhexyl ester	-	2B	-

Reproductive toxicity

Conclusion/Summary : Mixture.Not fully tested.

Teratogenicity

Conclusion/Summary : Mixture.Not fully tested.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Hexane	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Hexane	Category 2	-	-

Aspiration hazard

Name	Result
Hexane	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure : Not available.

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Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes skin irritation.
- Ingestion** : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following: pain or irritation, watering, redness
- Inhalation** : Adverse symptoms may include the following: respiratory tract irritation, coughing, reduced fetal weight, increase in fetal deaths, skeletal malformations
- Skin contact** : Adverse symptoms may include the following: irritation, redness, reduced fetal weight, increase in fetal deaths, skeletal malformations
- Ingestion** : Adverse symptoms may include the following: reduced fetal weight, increase in fetal deaths, skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure**Short term exposure**

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Potential chronic health effects

- Conclusion/Summary** : Mixture. Not fully tested.
- General** : No known significant effects or critical hazards.
- Carcinogenicity** : May cause cancer. Risk of cancer depends on duration and level of exposure.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : Suspected of damaging fertility.

Numerical measures of toxicity**Acute toxicity estimates**

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Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)
FLASH-TAK SPRAY ADHESIVE 600ML	86,000 mg/kg	25,000 mg/kg	100,000 ppm	N/A	N/A
2-Propanone	5,800 mg/kg	N/A	N/A	N/A	N/A
Methane, dimethoxy-	6,653 mg/kg	N/A	N/A	N/A	N/A
Benzene, dimethyl-	4,300 mg/kg	N/A	5,000 ppm	N/A	N/A
HEPTANE	N/A	2,500 mg/kg	N/A	N/A	N/A
Ethanol	7,000 mg/kg	N/A	N/A	124.7 Mg/l	N/A
Hexane	15,840 mg/kg	N/A	48,000 ppm	N/A	N/A
2-Propenoic acid, 2-ethylhexyl ester	6,700 mg/kg	N/A	N/A	N/A	N/A

Other information : This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
2-Propanone	Acute LC50 5,600 Mg/l Fresh water	Fish - Poecilia reticulata	96 h
	Acute LC50 4,425.89 Mg/l Marine water	Crustaceans - Acartia tonsa	48 h
	Acute LC50 0.01 Mg/l Fresh water	Daphnia - Daphnia magna	48 h
	Acute EC50 20.565 Mg/l Marine water	Algae - Ulva pertusa	96 h
	Chronic NOEC 4.95 Mg/l Marine water	Algae - Ulva pertusa	96 h
	Chronic NOEC 0.005 Mg/l Marine water	Fish - Gasterosteus aculeatus	42 d
	Chronic NOEC 16 Mg/l Fresh water	Crustaceans - Daphniidae	21 d

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	Chronic NOEC 100 Mg/l Fresh water	Daphnia - Daphnia magna	21 d
Methane, dimethoxy-			
	Acute LC50 6,990 Mg/l Fresh water	Fish - Pimephales promelas	96 h
Benzene, dimethyl-			
	Acute LC50 13.4 Mg/l Fresh water	Fish - Pimephales promelas	96 h
	Acute LC50 8.5 Mg/l Marine water	Crustaceans - Palaemonetes pugio	48 h
Ethanol			
	Acute LC50 0.042 Mg/l Fresh water	Fish - Oncorhynchus mykiss	96 h
	Acute EC50 0.002 Mg/l Fresh water	Daphnia - Daphnia magna	48 h
	Acute LC50 25.5 Mg/l Marine water	Crustaceans - Artemia franciscana	48 h
	Acute EC50 17.921 Mg/l Marine water	Algae - Ulva pertusa	96 h
	Chronic NOEC 4.995 Mg/l Marine water	Algae - Ulva pertusa	96 h
	Chronic NOEC 0.375 Mg/l Fresh water	Fish - Gambusia holbrooki	84 d
	Chronic NOEC 100 Mg/l Fresh water	Daphnia - Daphnia magna	21 d
Hexane			
	Acute LC50 0.0025 Mg/l Fresh water	Fish - Pimephales promelas	96 h

Conclusion/Summary : Not available.

Persistence and degradability

Conclusion/Summary : Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-Propanone	-0.23	-	low
Methane, dimethoxy-	0	-	low
Benzene, dimethyl-	3.15	8.10 - 25.90	low
Ethanol	-0.35	-	low
Hexane	4	501.19	high
2-Propenoic acid, 2-ethylhexyl ester	4.64	-	high

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Mobility in soil

Soil/water partition coefficient (KOC) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

United States - RCRA Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Listed

Ingredient	CAS #	Status	Reference number
Acetone	67-64-1	Listed	
Xylenes (o-, m-, p- isomers)	1330-20-7	Listed	

Section 14. Transport information

U.S.DOT 49CFR Ground/Air/Water : Not regulated for transportation.

International Air ICAO/IATA : Consult mode specific transport rules

International Water IMO/IMDG : Consult mode specific transport rules

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Section 15. Regulatory information

- U.S. Federal regulations :
 - United States - TSCA 12(b) - Chemical export notification:** None of the components are listed.
 - United States - TSCA 4(a) - Final Test Rules:** Not listed
 - United States - TSCA 4(a) - ITC Priority list:** Not listed
 - United States - TSCA 4(a) - Proposed test rules:** Not listed
 - United States - TSCA 4(f) - Priority risk review:** Not listed
 - United States - TSCA 5(a)2 - Final significant new use rules:** Not listed
 - United States - TSCA 5(a)2 - Proposed significant new use rules:** Not listed
 - United States - TSCA 5(e) - Substances consent order:** Not listed
 - United States - TSCA 6 - Final risk management:** Not listed
 - United States - TSCA 6 - Proposed risk management:** Not listed
 - United States - TSCA 8(a) - Chemical risk rules:** Not listed
 - United States - TSCA 8(a) - Dioxin/Furane precursor:** Not listed
 - United States - TSCA 8(a) - Chemical Data Reporting (CDR):** Not determined
 - United States - TSCA 8(a) - Preliminary assessment report (PAIR):** Listed Methane, dimethoxy-Cyclohexane, methyl-
 - United States - TSCA 8(c) - Significant adverse reaction (SAR):** Not listed
 - United States - TSCA 8(d) - Health and safety studies:** Not listed
 - United States - EPA Clean water act (CWA) section 307 - Priority pollutants:** Not listed
 - United States - EPA Clean water act (CWA) section 311 - Hazardous substances:** Listed
 - United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances:** Not listed
 - United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Toxic substances:** Not listed
 - United States - Department of commerce - Precursor chemical:** Not listed

- Clean Air Act Section 112(b) : Listed
- Hazardous Air Pollutants (HAPs) : Listed
- Clean Air Act Section 602 Class I Substances : Not listed
- Clean Air Act Section 602 Class II Substances : Not listed
- DEA List I Chemicals (Precursor Chemicals) : Not listed

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DEA List II Chemicals (Essential Chemicals) : Listed

US. EPA CERCLA Hazardous Substances (40 CFR 302)

Chemical Name	CAS-No.	RQ for component
Xylenes (o-, m-, p- isomers)	1330-20-7	100 lb(s) 45.4 kg 1,000 lb(s) 454 kg
Acetone	67-64-1	5,000 lb(s) 2,270 kg 5,000 lb(s) 2,270 kg

SARA 311/312

Classification : FLAMMABLE AEROSOLS - Category 2
GASES UNDER PRESSURE - Compressed gas
SKIN IRRITATION - Category 2
EYE IRRITATION - Category 2A
CARCINOGENICITY - Category 1A
TOXIC TO REPRODUCTION - Category 2

Composition/information on ingredients

Name	%	Classification
Petroleum gases, liquefied	>= 25 - <= 50	FLAMMABLE GASES - Category 1 GASES UNDER PRESSURE - Liquefied gas
2-Propanone	>= 10 - <= 25	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A
Methane, dimethoxy-	>= 10 - <= 25	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A
Benzene, dimethyl-	>= 5 - <= 10	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY - inhalation - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
HYDROCARBONS, C6-C7, N-ALKANES,	>= 5 - <= 10	FLAMMABLE LIQUIDS - Category 2

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ISOALKANES, CYCLICS, <5% N-HEXANE		
HEPTANE	>= 5 - <= 10	FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
Ethanol	>= 0.3 - < 1	FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 1A
Hexane	>= 0.3 - < 1	FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2B TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Narcotic effects - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1
2-Propenoic acid, 2-ethylhexyl ester	>= 0.3 - < 1	FLAMMABLE LIQUIDS - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2

Form R - Reporting requirements

Product name	CAS number	%
Xylenes (o-, m-, p- isomers)	1330-20-7	>= 5 - <= 10

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

Not applicable.

State regulations

Massachusetts
New York

- : None of the components are listed.
- : The following components are listed:
 Acetone
 Xylenes (o-, m-, p- isomers)

New Jersey

- : The following components are listed:
 Petroleum gases, liquefied

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Pennsylvania :

- Acetone
- Methane, dimethoxy-
- Xylenes (o-, m-, p- isomers)
- Ethyl alcohol
- 2-Ethylhexyl acrylate

The following components are listed:
 Petroleum gases, liquefied

- Acetone
- Methane, dimethoxy-
- Xylenes (o-, m-, p- isomers)
- Ethyl alcohol
- 2-Ethylhexyl acrylate

California Prop. 65

⚠ WARNING: This product can expose you to chemicals including 2-Ethylhexyl acrylate, which is known to the State of California to cause cancer, and Hexane, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
Hexane	-	Yes.
2-Ethylhexyl acrylate	-	-

United States inventory (TSCA 8b) : Not determined.

Canada inventory : Not determined.

International regulations

Inventory list

- Australia** : Not determined.
- Canada** : Not determined.
- China** : Not determined.
- Europe inventory** : All components are listed or exempted.
- Japan** : Not determined.
- New Zealand** : Not determined.
- Philippines** : Not determined.
- Republic of Korea** : Not determined.
- Taiwan** : Not determined.
- Turkey** : Not determined.

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United States : Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	*	2
Flammability		3
Physical hazards		3

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

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Key to abbreviations

: ATE = Acute Toxicity Estimate
 BCF = Bioconcentration Factor
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC = Intermediate Bulk Container
 IMDG = International Maritime Dangerous Goods
 LogPow = logarithm of the octanol/water partition coefficient
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
 UN = United Nations

References : Not available.

Notice to reader

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