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29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : Aroset™ 2100
ADHESIVE
™ Trademark, Bostik or its subsidiaries, registered in various countries

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

Recommended use : ADHESIVE


Details of the supplier of the safety data sheet Bostik, Inc. 11320 W Watertown Plank Road Wauwatosa, WI 53226 United States of America (USA) +1(800)843-0844; +1(414)774-2250 EHSproductsafety.US@bostik.com	Emergency telephone number Chemtrec 1-800-424-9300, outside US 1-703-527-3887 Regulatory information Rocky Mountain Poison center: 1-866-767-5089
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SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 2
Skin sensitization : Category 1
Reproductive toxicity : Category 2
Specific target organ toxicity : Category 3 (Central nervous system)
- single exposure
Specific target organ toxicity : Category 1 (Nervous system)
- repeated exposure
(Inhalation)

GHS label elements

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Hazard pictograms :



Signal Word : Danger

Hazard Statements : Highly flammable liquid and vapor.
May cause an allergic skin reaction.
May cause drowsiness or dizziness.
Suspected of damaging fertility.
Causes damage to organs (Nervous system) through prolonged or repeated exposure if inhaled.

Precautionary Statements : **Prevention:**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ ventilating/ lighting/ equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
IF exposed or concerned: Get medical advice/ attention.
If skin irritation or rash occurs: Get medical advice/ attention.
Wash contaminated clothing before reuse.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
Storage:
Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.

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Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Other hazards

Static Accumulating liquid

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Classification	Concentration (%)
ALUMINUM SALT	800986-5735P	Acute Tox. 2; H300 Skin Irrit. 2; H315 Eye Irrit. 2A; H319 Skin Sens. 1; H317 STOT SE 3; H335	>= 0.10 - < 0.50

The identity and concentration of one or more component(s) is being withheld under business confidentiality.

ETHYL ACETATE	141-78-6	Flam. Liq. 2; H225 STOT SE 3; H336	>=50.00 - < 60.00
ISOPROPANOL	67-63-0	Flam. Liq. 2; H225 Eye Irrit. 2A; H319 STOT SE 3; H336	>=5.00 - < 10.00
N-HEXANE	110-54-3	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Repr. 2; H361f	>=1.50 - < 5.00



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		STOT SE 3; H336 STOT RE 2; H373 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	
NAPHTHA (PETROLEUM), HYDROTREATED LIGHT	64742-49-0	Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336 Asp. Tox. 1; H304	>=1.50 - < 5.00
METHYL ACRYLATE	96-33-3	Flam. Liq. 2; H225 Acute Tox. 4; H302 Acute Tox. 3; H331 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2A; H319 Skin Sens. 1; H317 STOT SE 3; H335	>=0.10 - < 0.50


The concentration of one or more component(s) is being withheld under business confidentiality.

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Call a POISON CENTRE or doctor/physician if exposed or you feel unwell.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

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- If inhaled : Move to fresh air.
If unconscious, place in recovery position and seek medical advice.
Consult a physician after significant exposure.
- In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.
If on skin, rinse well with water.
Wash contaminated clothing before re-use.
If on clothes, remove clothes.
- In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
If eye irritation persists, consult a specialist.
- If swallowed : Obtain medical attention.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:
stomach or intestinal upset (nausea, vomiting, diarrhea)
irritation (nose, throat, airways)
confusion
lung edema (fluid buildup in the lung tissue)
Administration of high doses of isopropanol in combination with known hepatotoxic chemicals resulted in enhanced liver toxicity in experimental animals.
Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material.
- May cause an allergic skin reaction.
May cause drowsiness or dizziness.
Suspected of damaging fertility.
Causes damage to organs through prolonged or repeated exposure if inhaled.
- Notes to physician : No hazards which require special first aid measures.


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SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Water spray
Foam
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Carbon dioxide (CO₂)
Carbon monoxide
Hydrocarbons
- Specific extinguishing methods :
- Product is compatible with standard fire-fighting agents.
- Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Use a water spray to cool fully closed containers.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.
Remove all sources of ignition.
Use personal protective equipment.
Ensure adequate ventilation.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Persons not wearing protective equipment should be excluded

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from area of spill until clean-up has been completed.


- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
- Other information : Comply with all applicable federal, state, and local regulations.
Suppress (knock down) gases/vapours/mists with a water spray jet.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).
No sparking tools should be used.
Keep away from open flames, hot surfaces and sources of ignition.
Use only explosion-proof equipment.

Static ignition hazard can result from handling and use.
Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77.

- Advice on safe handling : Open drum carefully as content may be under pressure.
Avoid formation of aerosol.
Provide sufficient air exchange and/or exhaust in work rooms.
Do not breathe vapours/dust.
Do not smoke.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Container hazardous when empty.
Take precautionary measures against static discharges.
Avoid exposure - obtain special instructions before use.

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Avoid contact with skin and eyes.
Smoking, eating and drinking should be prohibited in the application area.
For personal protection see section 8.
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
No smoking.

Further information on storage stability : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ETHYL ACETATE	141-78-6	TWA	400 ppm	ACGIH
		TWA	400 ppm	NIOSH REL
		TWA	1,400 mg/m3	
		TWA	400 ppm	OSHA Z-1
		TWA	1,400 mg/m3	
		TWA	400 ppm	OSHA P0
		PEL	400 ppm	CAL PEL
			1,400 mg/m3	
ISOPROPANOL	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm	NIOSH REL
			980 mg/m3	
		ST	500 ppm	NIOSH REL
			1,225 mg/m3	
		TWA	400 ppm	OSHA Z-1
			980 mg/m3	
		TWA	400 ppm	OSHA P0
			980 mg/m3	
		STEL	500 ppm	OSHA P0
			1,225 mg/m3	



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		PEL	400 ppm 980 mg/m3	CAL PEL
		STEL	500 ppm 1,225 mg/m3	CAL PEL
N-HEXANE	110-54-3	TWA	50 ppm	ACGIH
		TWA	50 ppm 180 mg/m3	NIOSH REL
		TWA	500 ppm 1,800 mg/m3	OSHA Z-1
		TWA	50 ppm 180 mg/m3	OSHA P0
		PEL	50 ppm 180 mg/m3	CAL PEL
NAPHTHA (PETROLEUM), HYDROTREATED LIGHT	64742-49-0	TWA	500 ppm 2,000 mg/m3	OSHA Z-1
		TWA	400 ppm 1,600 mg/m3	OSHA P0
		PEL	400 ppm 1,600 mg/m3	CAL PEL

The concentration of one or more component(s) is being withheld under business confidentiality.

Hazardous components without workplace control parameters

Components	CAS-No.
ALUMINUM SALT	800986-5735P
METHYL ACRYLATE	96-33-3


Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
ISOPROPANOL	67-63-0	Acetone	Urine	End of shift at end of workweek	40 mg/l	ZUS_A CGIHB
N-HEXANE	110-54-3	2,5-Hexanedione	Urine	End of shift	0.5 mg/l	ZUS_A CGIHB
Remarks:	Without hydrolysis					

Engineering measures : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment


Respiratory protection : In the case of vapor formation use a respirator with an approved filter.

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- Filter type : Organic vapour type
- Hand protection
- Material : Laminate (Barrier© or Silvershield©)
 - Break through time : 480 min
 - Glove thickness : > 0.5 mm
- Remarks : The exact break through time can be obtained from the protective glove producer and this has to be observed. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.
- Skin and body protection : Wear as appropriate:
Impervious clothing
Safety shoes
Flame-resistant clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place. Discard gloves that show tears, pinholes, or signs of wear. Wear resistant gloves (consult your safety equipment supplier).
- Hygiene measures : Wash hands before breaks and at the end of workday.
When using do not eat or drink.
When using do not smoke.


SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Physical state : liquid
- Colour : colourless
- Odour : Do not attempt to smell the product as it is hazardous.
- Odour Threshold : No data available
- pH : No data available

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Melting point/freezing point : not determined
Boiling point/boiling range : not determined
Flash point : 20 °F
Method: closed cup
Evaporation rate : not determined
Flammability (liquids) : Static Accumulating liquid
Upper explosion limit : Upper explosion limit not determined
Lower explosion limit : Lower explosion limit not determined
Vapour pressure : not determined
Relative vapour density : not determined
Relative density : No data available
Density : 0.91 g/cm³ (25 °C)
Solubility(ies)
Water solubility : not determined
Solubility in other solvents : No data available
Partition coefficient: n-octanol/water : not determined
Thermal decomposition : No data available
Viscosity
Viscosity, dynamic : 6,000 - 16,000 cps (25 °C)
Method: Brookfield
Viscosity, kinematic : not determined
Oxidizing properties : Not applicable

SECTION 10. STABILITY AND REACTIVITY

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Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Vapours may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Acids
Aldehydes
alkalis
aluminum
Amines
Ethylene oxide
halogenated hydrocarbons
halogens
isocyanates
nitrates
peroxides
strong alkalis
Strong oxidizing agents
Do not use with aluminum equipment at temperatures above 49C or 120 degrees F.

Hazardous decomposition products : Carbon monoxide
Carbon dioxide (CO₂)
Hydrocarbons
Acetone

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation
Skin contact
Eye contact
Ingestion

Acute toxicity


Not classified based on available information.

Components:

ALUMINUM SALT:

Acute oral toxicity : LD50 (Rat): 49 mg/kg

Components:

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ETHYL ACETATE:

- Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
- Acute inhalation toxicity : LC0 (Rat): > 6000 ppm
Exposure time: 6 h
Assessment: Not classified as acutely toxic by inhalation under GHS.
- Acute dermal toxicity : LD50 (Rabbit): > 20,000 mg/kg

ISOPROPANOL:

- Acute oral toxicity : LD50 (Rat): 5.84 g/kg
- Acute inhalation toxicity : LC50 (Rat): > 10000 ppm
Exposure time: 4 h
Test atmosphere: vapour
Method: OECD Test Guideline 403
- Acute dermal toxicity : LD50 (Rabbit): 12,800 mg/kg

N-HEXANE:


- Acute oral toxicity : LD50 (Rat): 16 g/kg
- Acute inhalation toxicity : LC50 (Rat): > 169.2 mg/l
Exposure time: 4 h
Test atmosphere: vapour
- Acute dermal toxicity : LD0 (Rabbit): > 2,000 mg/kg

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT:

- Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 401
- Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: No adverse effect has been observed in acute dermal toxicity tests.

METHYL ACRYLATE:

- Acute oral toxicity : LD50 (Rat): 768 mg/kg
- Acute inhalation toxicity : LC50 (Rat): 10 mg/l
Exposure time: 4 h
Test atmosphere: vapour

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Acute dermal toxicity : LD50 (Rabbit): 1,250 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Product:

Result: Repeated exposure may cause skin dryness or cracking.

Remarks: May cause skin irritation in susceptible persons.

Components:

ALUMINUM SALT:

Result: Irritating to skin.

Remarks: Information given is based on data obtained from similar substances.

Components:

ETHYL ACETATE:

Species: Rabbit

Result: Slight, transient irritation

ISOPROPANOL:

Species: Rabbit

Result: No skin irritation

N-HEXANE:

Species: Rabbit

Result: Irritating to skin.

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT:

Result: Irritating to skin.

METHYL ACRYLATE:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Severe skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.


Components:

ALUMINUM SALT:

Result: Irritating to eyes.

Remarks: Information given is based on data obtained from similar substances.

Components:

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ETHYL ACETATE:
Species: Rabbit
Result: Slight, transient irritation

ISOPROPANOL:
Species: Rabbit
Result: Irritating to eyes.
Method: OECD Test Guideline 405

N-HEXANE:
Species: Rabbit
Result: No eye irritation

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT:
Species: Rabbit
Result: Slight, transient irritation
Method: OECD Test Guideline 405

METHYL ACRYLATE:
Species: Rabbit
Result: Severe eye irritation


Respiratory or skin sensitisation
Skin sensitisation: May cause an allergic skin reaction.
Respiratory sensitisation: Not classified based on available information.

Components:
ALUMINUM SALT:
Assessment: May cause sensitisation by skin contact.

Components:
ETHYL ACETATE:
Test Type: Maximisation Test
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Did not cause sensitisation on laboratory animals.

ISOPROPANOL:
Test Type: Buehler Test
Species: Guinea pig
Assessment: Does not cause skin sensitisation.
Method: OECD Test Guideline 406

N-HEXANE:
Test Type: Local lymph node assay (LLNA)
Exposure routes: Skin contact
Species: Mouse

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Method: OECD Test Guideline 429
Result: Not a skin sensitizer.

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT:
Assessment: Did not cause sensitisation on laboratory animals.

METHYL ACRYLATE:
Test Type: Local lymph node assay
Species: Mouse
Assessment: May cause sensitisation by skin contact.
Method: OECD Test Guideline 429
Result: May cause sensitisation by skin contact.

Germ cell mutagenicity
Not classified based on available information.

Components:

ETHYL ACETATE:

Genotoxicity in vitro : Test Type: Ames test
Test species: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Result: negative

ISOPROPANOL:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test
Test species: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative


N-HEXANE:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

: Test Type: In vitro mammalian cell gene mutation test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: Conflicting results have been seen in different studies.

Genotoxicity in vivo : Test Type: chromosome aberration assay
Test species: Mouse
Application Route: Inhalation
Result: negative

Carcinogenicity

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Not classified based on available information.

Reproductive toxicity

Suspected of damaging fertility.

Components:

N-HEXANE:

Effects on fertility : Species: Rat
Application Route: Inhalation
Symptoms: toxic effects for reproduction Testicular effects

Effects on foetal development : Test Type: Embryo-foetal development
Species: Mouse
Application Route: Inhalation
Result: No effects on fertility and early embryonic development were detected.

Test Type: Embryo-foetal development
Species: Rat
Application Route: Inhalation
Result: Embryotoxic effects and adverse effects on the offspring were detected only at high maternally toxic doses

Reproductive toxicity - Assessment : Suspected of damaging fertility., Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

STOT - single exposure

May cause drowsiness or dizziness.

Components:

ALUMINUM SALT:

Exposure routes: Inhalation
Target Organs: Respiratory system
Assessment: May cause respiratory irritation.

Components:

ETHYL ACETATE:

Assessment: May cause drowsiness or dizziness.

ISOPROPANOL:


Assessment: May cause drowsiness or dizziness.

N-HEXANE:

Target Organs: Central nervous system
Assessment: May cause drowsiness or dizziness.

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT:

Exposure routes: Inhalation
Target Organs: Central nervous system
Assessment: May cause drowsiness or dizziness.

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METHYL ACRYLATE:

Target Organs: Respiratory Tract

Assessment: May cause respiratory irritation.

STOT - repeated exposure

Causes damage to organs (Nervous system) through prolonged or repeated exposure if inhaled.

Components:

N-HEXANE:

Target Organs: Nervous system

Assessment: May cause damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

Components:

N-HEXANE:

Species: Rat

Application Route: Oral

Exposure time: Subchronic

Target Organs: Nervous system

Symptoms: Reduced body weight, central nervous system effects

Species: Rat

Application Route: Inhalation

Exposure time: Subchronic

Target Organs: Nervous system

Symptoms: Reduced body weight, central nervous system effects

Species: Mouse

Application Route: Inhalation

Exposure time: Subchronic

Target Organs: Nervous system

Symptoms: Local irritation, central nervous system effects

Aspiration toxicity

Not classified based on available information.

Components:

N-HEXANE:

May be fatal if swallowed and enters airways.


NAPHTHA (PETROLEUM), HYDROTREATED LIGHT:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

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Components:

ISOPROPANOL:

Remarks: Central nervous system

Carcinogenicity:**IARC**

Group 2B: Possibly carcinogenic to humans

2-ETHYLHEXYLACRYLATE 103-11-7

METHYL ACRYLATE 96-33-3

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**

Ecotoxicology Assessment

Short-term (acute) aquatic hazard

: Acute aquatic toxicity Category 3; Harmful to aquatic life.

Long-term (chronic) aquatic hazard

: Chronic aquatic toxicity Category 3; Harmful to aquatic life with long lasting effects.

Components:**ALUMINUM SALT:**

Toxicity to fish

: LC50 (Fish): Calculated > 1,000 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates


: EC50 (Daphnia (water flea)): Calculated > 1,000 mg/l
Exposure time: 48 h

Toxicity to algae


: EC50 (Aquatic plants): Calculated > 1,000 mg/l
Exposure time: 96 h**ETHYL ACETATE:**

Toxicity to fish

: LC50 (Pimephales promelas (fathead minnow)): 220 - 250 mg/l
Exposure time: 96 h
Test Type: flow-through test

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- Toxicity to daphnia and other aquatic invertebrates : LC50 (Water flea (*Daphnia cucullata*)): 154 mg/l
Exposure time: 48 h
Test Type: static test
- Toxicity to algae : NOEC (*Desmodesmus subspicatus* (green algae)): > 100 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (*Daphnia* (water flea)): 2.4 mg/l
Exposure time: 21 d
Test Type: semi-static test
Method: OECD Test Guideline 211
- ISOPROPANOL:**
Toxicity to fish : LC50 (*Pimephales promelas* (fathead minnow)): 10,000 mg/l
Exposure time: 96 h
Test Type: flow-through test
- Toxicity to daphnia and other aquatic invertebrates : LC50 (*Daphnia magna* (Water flea)): > 10,000 mg/l
Exposure time: 24 h
Test Type: static test
- N-HEXANE:**
Toxicity to fish : LC50 (*Oryzias latipes* (Orange-red killifish)): > 1 mg/l
Exposure time: 48 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 3.9 mg/l
Exposure time: 48 h
- Toxicity to algae : EC50 (*Chlorella pyrenoidosa* (algae)): > 9.8 mg/l
Exposure time: 72 h
- Ecotoxicology Assessment
Short-term (acute) aquatic hazard : Toxic to aquatic life.
- Long-term (chronic) aquatic hazard : Toxic to aquatic life with long lasting effects.
- NAPHTHA (PETROLEUM), HYDROTREATED LIGHT:**
Toxicity to fish : LL50 (*Pimephales promelas* (fathead minnow)): 8.2 mg/l
Exposure time: 96 h
Test Type: semi-static test
Test substance: WAF

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Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 4.5 mg/l
Exposure time: 48 h
Test Type: static test
Test substance: WAF
Method: OECD Test Guideline 202

Toxicity to algae : EL50 (Pseudokirchneriella subcapitata (microalgae)): 3.1 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test
Test substance: WAF
Method: OECD Test Guideline 201

NOELR (Pseudokirchneriella subcapitata (microalgae)): < 0.1 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test
Test substance: WAF
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : LL50 (Pimephales promelas (fathead minnow)): 5.2 mg/l
Exposure time: 14 d
Test Type: semi-static test
Test substance: WAF


Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR (Daphnia magna (Water flea)): 2.6 mg/l
Exposure time: 21 d
Test Type: semi-static test
Method: OECD Test Guideline 211

METHYL ACRYLATE:
Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.6 mg/l
Exposure time: 48 h
Test Type: flow-through test
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 3.55 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

Persistence and degradability

Components:
ALUMINUM SALT:

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Biodegradability : Result: Inherently biodegradable.

ETHYL ACETATE:
Biodegradability : Result: Readily biodegradable.

N-HEXANE:
Biodegradability : Result: Readily biodegradable.
Biodegradation: 98 %
Exposure time: 28 d

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT:
Biodegradability : Result: Readily biodegradable.
Biodegradation: 77 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

METHYL ACRYLATE:
Biodegradability : aerobic
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 90 - 100 %
Exposure time: 28 d
Method: OECD Test Guideline 310

No data available
Bioaccumulative potential
Components:


ALUMINUM SALT:
Partition coefficient: n-octanol/water : log Pow: Calculated -1.67

ETHYL ACETATE:
Bioaccumulation : Species: Scenedesmus quadricauda (Green algae)
Bioconcentration factor (BCF): 13,500
Exposure time: 24 h
Concentration: 0.05 mg/l
Method: Static

Partition coefficient: n-octanol/water : log Pow: 0.68

ISOPROPANOL:
Partition coefficient: n-octanol/water : log Pow: 0.05

N-HEXANE:
Bioaccumulation : Species: Fish
Bioconcentration factor (BCF): 501

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Partition coefficient: n-octanol/water : log Pow: 3.90

METHYL ACRYLATE:
Partition coefficient: n-octanol/water : log Pow: 0.80

No data available

Mobility in soil

Components:

No data available

Other adverse effects

No data available

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life with long lasting effects.

Components:

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

General advice : Dispose of in accordance with all applicable local, state and federal regulations.

The product should not be allowed to enter drains, water courses or the soil.

Do not contaminate ponds, waterways or ditches with chemical or used container.


Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

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ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
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U.S. DOT - ROAD

UN	1133	Adhesives	3	II	
----	------	-----------	---	----	--

CFR_RAIL_C

UN	1133	Adhesives	3	II	
----	------	-----------	---	----	--

U.S. DOT - INLAND WATERWAYS

UN	1133	Adhesives	3	II	
----	------	-----------	---	----	--

TDG ROAD_C

UN	1133	ADHESIVES	3	II	
----	------	-----------	---	----	--

TDG_RAIL_C

UN	1133	ADHESIVES	3	II	
----	------	-----------	---	----	--

TDG_INWT_C

UN	1133	ADHESIVES	3	II	
----	------	-----------	---	----	--

INTERNATIONAL MARITIME DANGEROUS GOODS

UN	1133	ADHESIVES	3	II	
----	------	-----------	---	----	--

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN	1133	Adhesives	3	II	
----	------	-----------	---	----	--


INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN	1133	Adhesives	3	II	
----	------	-----------	---	----	--

MX_DG

UN	1133	ADHESIVES	3	II	
----	------	-----------	---	----	--

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

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Marine pollutant	no
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Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15. REGULATORY INFORMATION

TSCA list

No substances are subject to TSCA 12(b) export notification requirements.

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
ETHYL ACETATE	141-78-6	5000	9684

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)
Hazard not otherwise classified (physical hazards)
Respiratory or skin sensitisation
Reproductive toxicity
Specific target organ toxicity (single or repeated exposure)


SARA 302 : This material does not contain any components with a section 302 EHS TPQ.

SARA 313 The following components are subject to reporting levels established by SARA Title III, Section 313:

ISOPROPANOL	67-63-0	6.34 %
N-HEXANE	110-54-3	3.28 %

California Prop. 65

WARNING: This product can expose you to chemicals including 2-ethylhexyl acrylate, methyl acrylate, acetaldehyde, which is/are known to the State of California to cause cancer, and n-

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hexane, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

The components of this product are reported in the following inventories:


- DSL : All components of this product are on the Canadian DSL
- AICS : Not in compliance with the inventory
- ENCS : On the inventory, or in compliance with the inventory
- KECI : On the inventory, or in compliance with the inventory
- PICCS : Not in compliance with the inventory
- IECSC : On the inventory, or in compliance with the inventory
- TCSI : On the inventory, or in compliance with the inventory
- TSCA : On or in compliance with the active portion of the TSCA inventory

Inventories

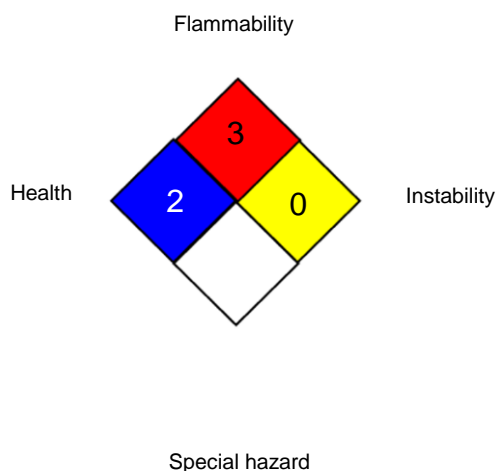
AIIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TECI (Thailand), TSCA (USA)

SECTION 16. OTHER INFORMATION

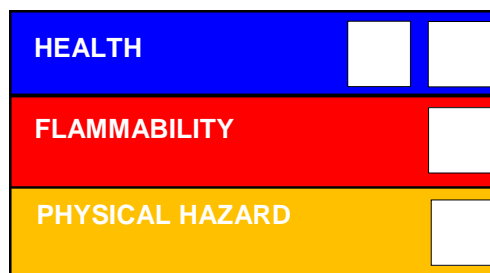
Further information

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NFPA 704:



HMIS® IV:




HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of H-Statements

- H225 Highly flammable liquid and vapor.
- H300 Fatal if swallowed.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H361f Suspected of damaging fertility.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -


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Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

This sds has been prepared by Bostik. (<http://www.Bostik.com>)

Sources of key data used to compile the Safety Data Sheet : Bostik internal data including own and sponsored test reports
European Union Law with content from the Official Journal of the European Union.
European Chemicals Agency; the EU authority implementing the EU's chemicals legislation for companies.
The German Water Hazard Classes.
ReachCentrum; a series of support services to help comply with REACH regulations.
The European Commission; proposing legislation, administering and implementing EU policies, and enforcing EU law.
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.
Cefic, the European Chemical Industry Council.
ESIS European Chemical Substances Information System

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