

1. IDENTIFICATION**Product Identifier****Product Name** AF-0220**Other means of identification****Product Code(s)** AF-0220**UN-No** 1133**Product Type** Adhesive**Recommended use of the chemical and restrictions on use****Recommended Use** For industrial use only.**Uses advised against** No information available**Details of the supplier of the safety data sheet****Supplier Address**Dural
550 Marshall Ave.
Dorval, PQ
Canada
H9P 1C9**Company Phone Number**

800-361-2340

Emergency telephone number**Emergency Telephone Number** CANUTEC 613-996-6666**2. HAZARDS IDENTIFICATION****Classification****OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Aspiration toxicity	Category 1
Flammable liquids	Category 2

Label elements**Emergency Overview****Signal Word** Danger**Hazard Statements**

CAUSES SKIN IRRITATION

Causes serious eye irritation

May cause an allergic skin reaction

Suspected of damaging fertility or the unborn child

May be harmful if swallowed and enters airways

May cause respiratory irritation
May cause drowsiness or dizziness
Flammable liquid and vapor



Appearance Amber

Physical State Liquid

Odor Hydrocarbon-like

Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Wear protective gloves/protective clothing/eye protection/face protection
Wash face, hands and any exposed skin thoroughly after handling
Contaminated work clothing must not be allowed out of the workplace
Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
Specific treatment (see Section 4 on this SDS)
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice
IF ON SKIN: Wash with plenty of water and soap
Take off contaminated clothing and wash it before reuse
If skin irritation or rash occurs: Get medical advice/attention
IF INHALED: Remove person to fresh air and keep comfortable for breathing
IF SWALLOWED: Immediately call a POISON CENTER or doctor
Do NOT induce vomiting

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed
Keep from freezing

Precautionary Statements - Disposal

Dispose of in accordance with federal, state and local regulations

Hazards not otherwise classified (HNOC)

None under normal processing
STATIC ACCUMULATING FLAMMABLE LIQUID CAN BECOME ELECTROSTATICALLY CHARGED EVEN IN BONDED AND GROUNDED EQUIPMENT
Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity)
Vapors may cause flash fire or explosion

Other Information

Unknown acute toxicity 4.68499 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Components	CAS No.	Weight-%	Trade Secret
Acetone	67-64-1	30-60	*
Hexane	110-54-3	15-30	*
Toluene	108-88-3	5.0-15	*
3-Methylpentane	96-14-0	5.0-15	*
2-Methylpentane	107-83-5	1-5%	*
Rosin	8050-09-7	<1.0%	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin Contact	Wash off immediately with soap and plenty of water. Take off contaminated clothing and wash before reuse. In the case of skin irritation or allergic reactions see a physician.
Inhalation	Remove to fresh air.
Ingestion	Call a physician or Poison Control Center immediately. Immediate medical attention is required. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Aspiration hazard if swallowed - can enter lungs and cause damage. Observe risk of aspiration if vomiting occurs. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Aspiration into lungs can produce severe lung damage.
Notes to Physician	May cause sensitization by inhalation and skin contact. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed. Potential for aspiration if swallowed. Observe risk of aspiration if vomiting occurs.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Alcohol-resistant foam, Water spray or fog

Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter and spread fire.

Specific Hazards Arising from the Chemical

Flammable. Vapors may accumulate in confined areas (basement, tanks, hopper/tank cars, etc.). Vapors may form explosive mixtures with air. Do not allow run-off from fire-fighting to enter drains or water courses. Dried product is capable of burning. Sealed containers may rupture when heated.

Explosion Data

Sensitivity to mechanical impact None.

Sensitivity to static discharge May be ignited by heat, sparks or flames. This liquid may accumulate static electricity when filling properly grounded containers. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Use personal protection equipment. Ensure adequate ventilation. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.
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Environmental precautions

Environmental precautions	See Section 12 for additional Ecological Information.
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Methods and material for containment and cleaning up

Methods for Cleaning Up	Pick up and transfer to properly labeled containers. Prevent environmental discharge consistent with regulatory requirements. Disposal should be in accordance with applicable regional, national and local laws and regulations.
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7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes, skin and clothing.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a cool, well-ventilated place. Keep from freezing.

Incompatible Products Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Components	ACGIH TLV	OSHA PEL	NIOSH IDLH	AIHA - WEEL
Acetone 67-64-1	BEI: 25 mg/L urine 500 ppm STEL TWA: 250 ppm	TWA: 1000 ppm TWA: 2400 mg/m ³ (vacated) TWA: 750 ppm (vacated) TWA: 1800 mg/m ³ (vacated) STEL: 2400 mg/m ³ (vacated) STEL: 1000 ppm	IDLH: 2500 ppm TWA: 250 ppm TWA: 590 mg/m ³	-
Hexane 110-54-3	BEI: 0.4 mg/L urine TWA: 50 ppm Skin	TWA: 500 ppm TWA: 1800 mg/m ³ (vacated) TWA: 50 ppm (vacated) TWA: 180 mg/m ³ (vacated) TWA: 500 ppm (vacated) TWA: 1800 mg/m ³ (vacated) STEL: 1000 ppm (vacated) STEL: 3600 mg/m ³	IDLH: 1100 ppm TWA: 50 ppm TWA: 180 mg/m ³	-
Toluene 108-88-3	BEI: 0.02 mg/L blood BEI: 0.03 mg/L urine BEI: 0.3 mg/g creatinine urine TWA: 20 ppm	TWA: 200 ppm (vacated) TWA: 100 ppm (vacated) TWA: 375 mg/m ³ (vacated) STEL: 150 ppm (vacated) STEL: 560 mg/m ³ Ceiling: 300 ppm	IDLH: 500 ppm TWA: 100 ppm TWA: 375 mg/m ³ STEL: 150 ppm STEL: 560 mg/m ³	-
3-Methylpentane 96-14-0	1000 ppm STEL (listed under Hexane isomers other than n-hexane) 1000 ppm STEL TWA: 500 ppm	(vacated) TWA: 500 ppm (vacated) TWA: 1800 mg/m ³ (vacated) STEL: 1000 ppm (vacated) STEL: 3600 mg/m ³	Ceiling: 510 ppm Ceiling: 1800 mg/m ³ TWA: 100 ppm TWA: 350 mg/m ³	-
2-Methylpentane 107-83-5	1000 ppm STEL (listed under Hexane isomers other than n-hexane) 1000 ppm STEL TWA: 500 ppm	(vacated) TWA: 500 ppm (vacated) TWA: 1800 mg/m ³ (vacated) STEL: 1000 ppm (vacated) STEL: 3600 mg/m ³	Ceiling: 510 ppm Ceiling: 1800 mg/m ³ TWA: 100 ppm TWA: 350 mg/m ³	-
Rosin 8050-09-7	-	(vacated) TWA: 0.1 mg/m ³	TWA: 0.1 mg/m ³	-

Appropriate engineering controls

Engineering Measures Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Avoid contact with eyes. Eye protection.

Skin and Body Protection Wear protective gloves/protective clothing.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Take off contaminated clothing and wash before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Hydrocarbon-like
Appearance	Amber	Odor Threshold	No data available
Color	Amber		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not Applicable	
Melting point / freezing point	No information available	
Boiling Point / Boiling Range	Specific test data for the substance or mixture is not available	
Flash Point	-18 °C	
Evaporation Rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper Explosive Limits	Specific test data for the substance or mixture is not available	
Lower Explosive Limits	Specific test data for the substance or mixture is not available	
Vapor pressure	Negligible	
Vapor Density	Specific test data for the substance or mixture is not available	
Specific Gravity	0.83	
Water Solubility	Slightly soluble	
Solubility in other solvents	Specific test data for the substance or mixture is not available	
Partition coefficient	No information available	
Autoignition Temperature	223 °C	
Decomposition Temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	1500-1700 cps	
Explosive Properties	No information available	
Oxidizing Properties	No information available	

Other Information

Softening Point	Specific test data for the substance or mixture is not available
Solids	20 %

10. STABILITY AND REACTIVITY

Reactivity

None under normal processing
None under normal processing

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

No information available.

Conditions to Avoid

Keep away from open flames, hot surfaces and sources of ignition. Keep away from children.

Incompatible Materials

Strong oxidizing agents, strong acids, and strong bases

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating gases and vapors. Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	Harmful by inhalation. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing. May cause drowsiness and dizziness. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. May cause irritation of respiratory tract.
Eye Contact	Contact with eyes may cause irritation.

Skin Contact

Repeated exposure may cause skin dryness or cracking. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Ingestion

Not an expected route of exposure. May be harmful if swallowed.

Components	Oral LD50	Dermal LD50	Inhalation LC50
Acetone 67-64-1	= 5800 mg/kg (Rat)	-	= 50100 mg/m ³ (Rat) 8 h
Hexane 110-54-3	= 25 g/kg (Rat) = 15000 mg/kg (Rat)	= 3000 mg/kg (Rabbit)	= 48000 ppm (Rat) 4 h
Toluene 108-88-3	= 2600 mg/kg (Rat)	= 12000 mg/kg (Rabbit)	= 12.5 mg/L (Rat) 4 h
3-Methylpentane 96-14-0	= 15000 mg/kg (Rat)	-	-
2-Methylpentane 107-83-5	= 15000 mg/kg (Rat)	-	-
Rosin 8050-09-7	= 7600 mg/kg (Rat)	> 2500 mg/kg (Rabbit)	= 1.5 mg/L (Rat) 4 h

Information on toxicological effects**Symptoms**

Specific test data for the substance or mixture is not available.

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

May cause sensitization in susceptible persons.

Mutagenic Effects

Specific test data for the substance or mixture is not available.

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Components	ACGIH	IARC	NTP	OSHA
Toluene 108-88-3	-	Group 3	-	-

Reproductive Toxicity

No information available

STOT - single exposure

Target Organs. Respiratory system. Central nervous system.

STOT - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Aspiration Hazard

Risk of serious damage to the lungs (by aspiration).

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	8,324.00
ATEmix (dermal)	13,951.00

12. ECOLOGICAL INFORMATION

Ecotoxicity

7.608245488 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Components	Algae/aquatic plants	Toxicity to Fish	Daphnia Magna (Water Flea)
Acetone - 67-64-1	N/A	4.74 - 6.33: 96 h Oncorhynchus mykiss mL/L LC50 6210 - 8120: 96 h Pimephales promelas mg/L LC50 static 8300: 96 h Lepomis macrochirus mg/L LC50	10294 - 17704: 48 h Daphnia magna mg/L EC50 Static 12600 - 12700: 48 h Daphnia magna mg/L EC50
Hexane - 110-54-3	N/A	2.1 - 2.98: 96 h Pimephales promelas mg/L LC50 flow-through	N/A
Toluene - 108-88-3	433: 96 h Pseudokirchneriella subcapitata mg/L EC50 12.5: 72 h Pseudokirchneriella subcapitata mg/L EC50 static	15.22 - 19.05: 96 h Pimephales promelas mg/L LC50 flow-through 12.6: 96 h Pimephales promelas mg/L LC50 static 5.89 - 7.81: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 14.1 - 17.16: 96 h Oncorhynchus mykiss mg/L LC50 static 5.8: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 11.0 - 15.0: 96 h Lepomis macrochirus mg/L LC50 static 54: 96 h Oryzias latipes mg/L LC50 static 28.2: 96 h Poecilia reticulata mg/L LC50 semi-static 50.87 - 70.34: 96 h	11.5: 48 h Daphnia magna mg/L EC50 5.46 - 9.83: 48 h Daphnia magna mg/L EC50 Static

		Poecilia reticulata mg/L LC50 static	
Rosin - 8050-09-7	400: 72 h Desmodesmus subspicatus mg/L EC50	N/A	3.8 - 5.4: 48 h Daphnia magna mg/L EC50

Persistence and Degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Components	log Pow
Acetone 67-64-1	-0.24
Toluene 108-88-3	2.65

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal Methods

This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261). Dispose of in accordance with federal, state and local regulations.

Contaminated Packaging

Dispose of in accordance with local regulations. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

14. TRANSPORT INFORMATION

DOT

UN-No
Proper Shipping Name
Hazard Class
Packing Group
Transport Label

Regulated
1133
Adhesives, (Acetone, hexane, toluene)
3
II



IATA

Regulated

IMDG/IMO

Regulated

15. REGULATORY INFORMATION

TSCA 8(b)
DSL

All components are listed or exempt
All components are listed or exempt

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical

or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Components	Weight-%	SARA 313 - Threshold Values %
Hexane - 110-54-3	17.9667	1.0
Toluene - 108-88-3	14.1492	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:

Components	Weight-%	HAPS data
Hexane 110-54-3	15-30	Present
Toluene 108-88-3	5.0-15	Present
2-Chloro-1,3-butadiene 126-99-8	<0.1%	Present
Formaldehyde 50-00-0	<0.1%	Present

CWA (Clean Water Act)

See information supplied by the manufacturer

CERCLA

See information supplied by the manufacturer

US State Regulations

California Proposition 65

This product contains (a) Proposition 65 chemical(s)

U.S. EPA Label Information

EPA Pesticide Registration Number No data available

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA	Health Hazard 1	Flammability 3	Instability 0	Physical and Chemical Hazards -
HMIS / WHMIS	Health Hazard 1	Flammability 3	Physical hazards 0	Personal Precautions X

Prepared By
Revision Date

Verified by Quality Control Department
02-Aug-2017

Revision Note
No information available

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet