DURA PRO®
a Dural brand

SAFETY DATA SHEET

Revision Date 27-Sep-2016

Revision Number 1

1. IDENTIFICATION

Product Identifier
Product Name AF-0295

Other means of identification
Product Code(s) AF-0295
UN-No UN 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

Emergency telephone number
Company Phone Number 800-361-2340
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
Flammable liquid and vapor

Appearance White **Physical State** Liquid **Odor** None

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)
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/attention
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 locked up
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)
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 4.54842 % 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	15-30	*
3-Methylpentane	96-14-0	5.0-15	*
Methylcyclopentane	96-37-7	1-5%	*
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 — Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If symptoms persist, call 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 — Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician.

Ingestion — Seek immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious or convulsing person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. If breathing has stopped, trained personnel should begin artificial respiration (AR) immediately. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation (CPR) immediately.

Notes to Physician — The main hazard following accidental ingestion is aspiration of the liquid into the lungs producing chemical pneumonitis. If symptoms such as loss of gag reflex, convulsions or unconsciousness occur before vomiting, gastric lavage with a cuffed endotracheal tube should be considered.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Alcohol-resistant foam, Water spray or fog

Small Fires
Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

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

Specific Hazards Arising from the Chemical
Do not allow run-off from fire-fighting to enter drains or water courses. Sealed containers may rupture when heated. Combustible material. Keep product and empty container away from heat and sources of ignition. Vapors may form explosive mixtures with air. May be ignited by heat, sparks or flames.

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. Keep people away from and upwind of spill/leak. Take precautionary measures against static discharges. Remove all sources of ignition.

Environmental precautions

Environmental precautions — See Section 12 for additional Ecological Information.

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. Take precautionary measures against

static discharges. Dike to collect large liquid spills. Take up with inert, damp, noncombustible material using clean non-sparking tools and place into loosely plastic containers for later disposal. Following product recovery, flush area with water.

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. Keep away from open flames, hot surfaces and sources of ignition. Do not breathe vapor or mist. In case of insufficient ventilation, wear suitable respiratory equipment.

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/m³ (vacated) TWA: 750 ppm (vacated) TWA: 1800 mg/m³ (vacated) STEL: 2400 mg/m³ (vacated) STEL: 1000 ppm	IDLH: 2500 ppm TWA: 250 ppm TWA: 590 mg/m³	-
Hexane 110-54-3	BEI: 0.4 mg/L urine TWA: 50 ppm Skin	TWA: 500 ppm TWA: 1800 mg/m³ (vacated) TWA: 50 ppm (vacated) TWA: 180 mg/m³ (vacated) TWA: 500 ppm (vacated) TWA: 1800 mg/m³ (vacated) STEL: 1000 ppm (vacated) STEL: 3600 mg/m³	IDLH: 1100 ppm TWA: 50 ppm TWA: 180 mg/m³	-
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/m³ (vacated) STEL: 150 ppm (vacated) STEL: 560 mg/m³ Ceiling: 300 ppm	IDLH: 500 ppm TWA: 100 ppm TWA: 375 mg/m³ STEL: 150 ppm STEL: 560 mg/m³	-
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/m³ (vacated) STEL: 1000 ppm (vacated) STEL: 3600 mg/m³	Ceiling: 510 ppm Ceiling: 1800 mg/m³ TWA: 100 ppm TWA: 350 mg/m³	-
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/m³ (vacated) STEL: 1000 ppm (vacated) STEL: 3600 mg/m³	Ceiling: 510 ppm Ceiling: 1800 mg/m³ TWA: 100 ppm TWA: 350 mg/m³	-
Rosin 8050-09-7	-	(vacated) TWA: 0.1 mg/m³	TWA: 0.1 mg/m³	-

Appropriate engineering controls

Engineering Measures Ensure adequate ventilation, especially in confined areas. Use process enclosure, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. Electrical and mechanical equipment should be explosion proof. Firewater monitors and deluge systems are recommended. Showers. Eyewash stations.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Avoid contact with eyes. Face-shield. Safety glasses with side-shields.

Skin and Body Protection Wear protective gloves/protective clothing.

Respiratory Protection	Use only with 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. Full face piece respirator with organic vapor/acid gas cartridge or canister.
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		
Appearance	White	**Odor**	Odorless
Color	White	**Odor Threshold**	No data available

Property	**Values**	**Remarks • Method**
pH	Specific test data for the substance or mixture is not available	
Melting point / freezing point	No information available	
Boiling Point / Boiling Range	Specific test data for the substance or mixture is not available	
Flash Point	Specific test data for the substance or mixture is not available	
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	1.52	
Water Solubility	Miscible with water	
Solubility in other solvents	Specific test data for the substance or mixture is not available	
Partition coefficient	No information available	
Autoignition Temperature		
Decomposition Temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	5000 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	51 %

10. STABILITY AND REACTIVITY

Reactivity
None under normal processing

Chemical stability
Stable under recommended storage conditions.
Possibility of Hazardous Reactions
None under normal processing.
Conditions to Avoid
Keep away from open flames, hot surfaces and sources of ignition.
Incompatible Materials
Strong oxidizing agents.
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 May cause drownsiness and dizziness based on components. May cause irritation of respiratory tract. Avoid breathing vapors or mists.

Eye Contact Severely irritating to eyes.

Skin Contact Repeated exposure may cause skin dryness or cracking. Prolonged skin contact may defat the skin and produce dermatitis. 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/m³ (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 Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

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 No information available.
STOT - repeated exposure No information available.
Neurological Effects Repeated or prolonged overexposure to solvents may cause permanent damage to the nervous system.
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) 7,525.00
ATEmix (dermal) 14,377.00

12. ECOLOGICAL INFORMATION

Ecotoxicity

7.29911768 % 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 Poecilia reticulata mg/L LC50 static	11.5: 48 h Daphnia magna mg/L EC50 5.46 - 9.83: 48 h Daphnia magna mg/L EC50 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 Dispose of in accordance with federal, state and local regulations. This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

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

14. TRANSPORT INFORMATION

DOT Regulated
UN-No UN 1133
Proper Shipping Name Adhesives, Flammable liquid, n.o.s
Hazard Class 3
Transport Label

IATA Regulated

IMDG/IMO Regulated

15. REGULATORY INFORMATION

TSCA 8(b) All components are listed or exempt
DSL All components are listed or exempt

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - 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 does not contain any 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	16.8025	1.0
Toluene - 108-88-3	16.2561	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	
Toluene 108-88-3	15-30	Present
2-Chloro-1,3-butadiene 126-99-8	<0.1%	
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)

Components	California Proposition 65
Toluene - 108-88-3	Developmental
2-Chloro-1,3-butadiene - 126-99-8	Carcinogen
Formaldehyde - 50-00-0	Carcinogen

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

Revision Date 27-Sep-2016
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