


SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier			
Product name	MIRAPAKON WP100		
Product code	WP100		
EC number	Not available		
CAS number	Not available		
REACH	A registration number is not available for this substance or its uses are exempted from registration, the annual tonnage does not require a registration or a registration is envisaged for a later registration deadline.		
Product description	Alcohol based washing product		
1.2. Relevant identified uses of the substance or mixture and uses advised against			
Identified uses:	Surface washing, surface preparation, water removal		
1.3. Details of the supplier of the safety data sheet			
Mirapakon Coatings Inc.	2500, Parc-Technologique Blvd Quebec City, QC Canada, G1P 4S6	Tel: 418-874-0054 Fax: 418-874-0355	info@mirapakon.com www.mirapakon.com
1.4. Emergency telephone number			
National advisory body/poison center	CANUTEC: +1-613-996-6666 or *666 (cellular)		
Telephone number	24 hours/day, 7 days/week		
Hours of operation			

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture	
Classification according to regulation (EC) No. 1272/2008 [CLP/GHS]:	
Flammable liquid	(Category 2), H225
Serious eye damage/eye irritation	(Category 2A), H319
Skin corrosion/irritation	(Category 3), H316
Specific target organ toxicity-single exposure, Central nervous system	(Category 3), H336
2.2. Label elements	
Labelling according Regulation (EC) No 1272/2008	
Pictogram	
Signal word	Danger
Hazard statements	
H225	Highly flammable liquid and vapour.
H316	Causes mild skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
Precautionary statements	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P261	Avoid breathing vapours
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses. Continue rinsing
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403 + P233 + P235	Store in a well-ventilated place. Keep container tightly closed. Keep cool
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant
According to European Directive 67/548/EEC as amended	
R11	Highly flammable
R36/R67	Irritant / Vapours may cause drowsiness and dizziness.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39	Wear suitable protective clothing, gloves, and eye/face protection.
S45	In case of accident or if you feel unwell, seek medical advice immediately
2.3. Other hazards	
Other hazards which do not result in classification: none	

SECTION 3: Composition/information on ingredients

Substance/mixture: mixture

Product/ingredient name	Identifiers CAS (EC)	%	Directive 1999/45/EC	Regulation (EC) No. 1272/2008 [CLP]	Type
Isopropanol	67-63-0	75-99	F, Xi, R11-R36-R67	Flam.Liq.2; Eye Irrit.2; STOTSE 3; H225,H319,H336	[A]
Azeotrope agent	Proprietary information	0-5	ND	ND	[A]

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

Type : [A] Constituent [B] Impurity [C] Stabilising additive

SECTION 4: First aid measures

4.1 Description of first aid measures	
Eye contact	Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if necessary
Skin contact	In case of contact, immediately flush skin with plenty of water for at least 20 minutes
Inhalation	Move exposed person to fresh air. If not breathing, give artificial respiration. Consult a physician.
Ingestion	Wash out mouth with water. Don't induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
4.2 Indication of any immediate medical attention and special treatment needed	
Notes to physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	No specific treatment

SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
Unsuitable extinguishing media	None known
5.2 Special hazards arising from the substance or mixture	
Hazard from the substances or mixture	Carbon oxides
Hazardous combustion products	No specific data
5.3 Advice for firefighters	
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. Clothing for fire fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 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. Do not touch or walk through spilt material. Put on appropriate personal protective equipment
For emergency responders	If specialised 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".
6.2 Environmental precautions	
Avoid dispersal of spilt material and runoff and contact with soil, waterways, drain and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).	
6.3 Methods and materials for containment and cleaning up	
Small spill	Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	Use personal protective equipment. Move containers from spill area. Prevent entry into sewers, watercourses, basements and confined areas. Vacuum or sweep up materials and place in a designated, labelled waste container. Avoid creating dusty conditions and prevent wind dispersal. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.
6.4 Reference to other sections	
See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.	

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of identified uses in section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling	
Protective measures	Avoid contact with skin and eyes. (see Section 8). Avoid inhalation of vapour or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.
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.

7.2 Conditions for safe storage, including any incompatibilities	
Store in accordance with local regulations. Store in original container in cool place, dry and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination	
7.3 Specific end use(s)	
Recommendations	Not available

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of identified uses in section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters	
Exposure limit values	Isopropanol
TWAEV 400 ppm; 983 mg/m ³	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
TWA 200 ppm	Canada. British Columbia OEL
STEL 400 ppm	Canada. British Columbia OEL
TWAEV 200 ppm	Canada. Ontario OELs
STEV 400 ppm	Canada. Ontario OELs
STEL 400 ppm; 984 mg/m ³	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
TWA 200 ppm 492 mg/m ³	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
STEV 500 ppm 1,230 mg/m ³	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
TWA 200 ppm	USA. ACGIH Threshold Limit Values (TLV)
STEL 400 ppm	USA. ACGIH Threshold Limit Values (TLV)
Exposure limit values	Other constituents and trace compounds
	No exposure limit value known. Components with workplace control parameters
8.2 Exposure controls	
Appropriate engineering controls	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits
Individual protection measures	
Hygiene measures	Ensure that eyewash stations and safety showers are close to the workstation location. 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.
Eye/face protection	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin protection	
Hand protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Body protection	Impervious clothing, Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
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	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties	
Physical state	Liquid; colourless
Melting point/freezing point	-89°C
Initial boiling point	81°C
Flash point	12.0°C – closed cup
Evaporation rate	3.0
Ignition temperature	425°C
Vapour pressure	43.2 hPa (32.4 mmHg) at 20.0 °C (68.0 °F); 58.7 hPa (44.0 mmHg) at 25.0 °C (77.0 °F)
Density	0.78 g/cm ³
Vapour density	No data available
Water solubility	Completely soluble

Odour	Alcohol-like
9.2 Other safety information	
No specific data available	

SECTION 10: Stability and reactivity

10.1 Reactivity	Reacts with oxidizing agents, acid anhydrides.
10.2 Chemical stability	The product is stable under recommended storage conditions.
10.3 Possibility of hazardous reactions	Vapours may form explosive mixture with air.
10.4 Conditions to avoid	Heat, flames and sparks.
10.5 Incompatible materials	Oxidizing agents, Acid anhydrides, Aluminium, Halogenated compounds, Acids.
10.6. Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. - Carbon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects	
Information on the likely routes of exposure	Routes of entry anticipated: Oral, Dermal and Inhalation.
Acute toxicity	
Inhalation LC50	LC50 Inhalation - Rat - 8 h - 16000 ppm
Oral LD50	LD50 Oral - Rat - 5,045 mg/kg Remarks: Behavioral:Altered sleep time (including change in righting reflex). Behavioral:Somnolence (general depressed activity).
Dermal LD50	LD50 Dermal - Rabbit - 12,800 mg/kg
Other	No data available.
Symptoms related to the physical, chemical and toxicological characteristics	
Signs and Symptoms of Exposure	Central nervous system depression, prolonged or repeated exposure can cause: Nausea, Headache, Vomiting, narcosis, Drowsiness, Overexposure may cause mild, reversible liver effects., Aspiration may lead to: Lung oedema, Pneumonia To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Inhalation	May cause drowsiness or dizziness, may cause respiratory tract irritation.
Ingestion	May cause drowsiness or dizziness. May be harmful if swallowed.
Skin contact	Mild skin irritation. May be harmful if absorbed through skin.
Eye contact	Eye irritation
Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure	
Potential immediate effects	Nausea, Headache, Vomiting, narcosis, Drowsiness.
Potential delayed effects	Not available.
Long term exposure	
Potential immediate effects	Not available.
Potential delayed effects	Overexposure may cause mild, reversible liver effects.
General: Carcinogenicity	This product is or contains a component that is not classifiable as to its carcinogenicity based on its OARC, ACGIH,NTP, or EPA classification. IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Isopropanol)
Mutagenicity: Teratogenicity	No data available
Developmental effects	No data available
Fertility effects	No data available
Other information	No data available

SECTION 12: Ecological information

12.1. Toxicity	To Fish – LC50- Pimephales promelas 9 640,00 mg/l - 96h To daphnia and other aquatic invertebrates – EC50- Daphnia magna (Water flea) – 5 102,00 mg/l - 24h To algae EC50 – Desmodesmus subspicatus (green algae) > 2 000,00 mg/l - 72h
12.2 Persistence and degradability	Not available
12.3 Bio accumulative potential	No bioaccumulation is to be expected
12.4 Mobility in soil	
Soil/water partition coefficient (KOC)	Not available
Mobility	Not available
12.5 Results of PBT and vPvB assessment	
PBT	This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic.
vPvB	This substance/mixture contains no components considered to be very persistent and vary bio accumulative at levels of 0,1% or higher.
12.6 Other adverse effects	No data available

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of identified uses in section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods	
Product	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste products residue should not be disposed of via the foul sewer, but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.
Hazardous waste	Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU directive 91/689/EEC
Packaging	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste when packaging should be recycled. Incineration or landfill should only be considered. Recycling is not feasible.
Special precautions	This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waters, drains and sewers

SECTION 14: Transport information

	ADR/RID	ADN/ADNR	IMDG	IATA
14.1 UN number	1263	1263	1263	1263
14.2 UN proper shipping name	Paint related	Paint related	Paint related	Paint related
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	II	II	II	II
14.5 Environmental hazards	No.	No.	No.	No.
14.6 Special precautions for user	Not available.	Not available.	Not available.	Not available.
Additional information	-	-	-	-

PG* : Packing group; Exemption to the above classification may apply.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	
WHMIS Classification	B2 Flammable liquid. D2B Toxic Material Causing Other Toxic Effects; Specific target organ toxicity - single exposure. Moderate eye irritant.
EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV - List of substances subject to authorisation Substances of very high concern	No data available
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not applicable
Other EU regulations	
Europe inventory	Not determined.
Black List Chemicals	Not listed
Priority List Chemicals	Not listed
Integrated pollution prevention and control list (IPPC) – Air	Not listed
Integrated pollution prevention and control list (IPPC) - Water	Not listed
15.2 Chemical Safety Assessment	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

SECTION 16: Other information

Abbreviations and acronyms:

ATE = Acute Toxicity Estimate

CLP= Classification, Labelling and Packaging regulation (Regulation <EC> No. 1272/2008

DNEL= Derived No Effect Level

EUH statement = CLP-specific Hazard statement

PNEC = Predicted No Effect Concentration

RRN = Reach Registration Number

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	
Full text of abbreviated H statements Eye Irrit. ; Flam. Liq. H225;H319;H336;STOT SE	Eye irritation; Flammable liquids Highly flammable liquid and vapour; Causes serious eye irritation; May cause drowsiness or dizziness; Specific target organ toxicity
Full text of classifications CLP/GHS F;Xi;R11;R36;R67	Highly flammable, Irritant; Highly flammable; Irritating to eyes; Vapour may cause drowsiness and dizziness.
History Date of issue (dd/mm/yyyy) Version	13/01/2017 1.1

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