HYDRANAL™ CRM Water Standard 1.0

34426-40ML

Version 1.1 Revision Date 03/02/2020 Print Date 05/12/2023

SECTION 1. IDENTIFICATION

Product name	:	HYDRANAL™ CRM Water Standard 1.0
Number	:	000000020622
Product Use Description	:	Laboratory chemicals
Manufacturer or supplier's details	:	Honeywell International Inc. 1953 South Harvey Street Muskegon, MI 49442
For more information call	:	1-800-368-0050 +1-231-726-3171(Monday-Friday, 9:00am-5:00pm)
In case of emergency call	:	**Medical: 1-800-498-5701 or +1-303-389-1414**
	:	**Transportation (CHEMTREC): 1-800-424-9300 or +1-703-527-3887**
	:	
	:	(24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Form	:	liquid
Color	:	colourless
Odor	:	aromatic

Classification of the substance or mixture

Classification of the substance or mixture : Flammable liquids, Category 3

GHS Label elements, including precautionary statements

Symbol(s)	:	
Signal word	:	Warning
Hazard statements	:	Flammable liquid and vapour.
Precautionary statements	:	**Prevention:** 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. Wear protective gloves/protective clothing/eye protection/face protection. **Response:** IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. **Storage:** Store in a well-ventilated place. Keep cool. **Disposal:** Dispose of contents/ container to an approved waste disposal plant.
Hazards not otherwise classified	:	Repeated or prolonged exposure may irritate eyes, skin and respiratory system.

Carcinogenicity

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, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

Chemical name	CAS-No.	Concentration
Anisole	100-66-3	>=90.00 - <100.00 %
Propylene carbonate	108-32-7	>=1.00 - <10.00 %

SECTION 4. FIRST AID MEASURES

General advice : First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.

Inhalation : Remove to fresh air. Keep patient warm and at rest. Call a physician immediately.

Skin contact : Wash off immediately with plenty of water. If skin irritation persists, call a physician.

Eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Protect unharmed eye.

Ingestion : When swallowed, allow water to be drunk. Do NOT induce vomiting. Call a physician immediately.

Notes to physician

Most important symptoms/effects, acute and delayed : No information available.

Indication of immediate medical attention and special treatment needed, if necessary : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray Foam Carbon dioxide (CO2) Dry powder
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during firefighting	:	Fire may cause evolution of: Carbon oxides
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.
Further information	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Evacuate personnel to safe areas. Wear personal protective equipment. Unprotected persons must be kept away. Remove all sources of ignition. Ensure adequate ventilation.
Environmental precautions	:	Should not be released into the environment.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material. Pick for disposal in tightly closed containers

SECTION 7. HANDLING AND STORAGE

Handling

Precautions for safe handling	:	Exhaust ventilation at the object is necessary.
Advice on protection against fire and explosion	:	Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. Vapours may form explosive mixtures with air.

Storage

Conditions for safe storage, including any incompatibilities	:	Keep only in the original container, tightly closed, in a well ventilated place. Store at room temperature. (Ambient temperature: > 0 < 35°C) Protect from atmospheric moisture and water.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective measures	:	Ensure that eyewash stations and safety showers are close to the workstation location. Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.
Eye protection	:	Safety goggles
Hand protection	:	Protective gloves Gloves must be inspected prior to use. Replace when worn.
Skin and body protection	:	Protective suit
Respiratory protection	:	In case of insufficient ventilation, wear suitable respiratory equipment.
Hygiene measures	:	Take off all contaminated clothing immediately. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday. When using do not eat or drink.

Exposure Guidelines
Contains no substances with occupational exposure limit values.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	liquid
Color	:	colourless

Odor	:	aromatic
Odor threshold	:	Note: no data available
pH	:	Note: no data available
Melting point/range	:	-37 °C Note: Anisole
Boiling point/boiling range	:	153 - 155 °C at 1,013 hPa Note: Anisole
Flash point	:	109 °F (43 °C) Method: closed cup
Evaporation rate	:	Note: no data available
Flammability	:	Not applicable
Lower explosion limit	:	Note: no data available
Upper explosion limit	:	Note: no data available
Vapor pressure	:	Note: no data available
Vapor density	:	Note: no data available
Density	:	1.000 g/cm3 at 20 °C
Water solubility	:	Note: insoluble

Partition coefficient: n-octanol/water	:	log Pow: 2.11 Test substance: Anisole
Ignition temperature	:	475 °C Note: Anisole
Decomposition temperature	:	Note: No decomposition if used as directed.
Viscosity, dynamic	:	Note: no data available
Viscosity, kinematic	:	Note: no data available
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reactions	:	Vapours may form explosive mixture with air.
Conditions to avoid	:	Keep away from sources of ignition - No smoking.
Incompatible materials	:	Strong oxidizing agents Strong acids and strong bases
Hazardous decomposition products	:	Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	:	Acute toxicity estimate: 3,854 mg/kg Method: Calculation method

Acute inhalation toxicity

Anisole	:	LC50: > 6.51 mg/l , vapour Exposure time: 4 h Species: Rat, male and female Method: OECD Test Guideline 403 Note: No deaths

Acute dermal toxicity

Propylene carbonate	:	LD50: > 2,000 mg/kg Species: Rabbit, male and female Method: OECD Test Guideline 402

Skin irritation

Anisole	:	Species: Rabbit Result: Mild skin irritation Method: OECD Test Guideline 404
Propylene carbonate	:	Species: Rabbit Result: slight irritation Method: OECD Test Guideline 404

Eye irritation

Anisole	:	Species: Rabbit Result: slight irritation Method: OECD Test Guideline 405

Sensitisation

Anisole	:	Maximisation Test Species: Guinea pig Result: Did not cause sensitisation on laboratory animals. Method: OECD Test Guideline 406

Repeated dose toxicity

Anisole	:	Species: Rat, male and female Application Route: Inhalation Exposure time: (29 d) No observed adverse effect level: 3000 mg/m3 Method: OECD Test Guideline 412
Propylene carbonate	:	Species: Rat, male and female

Application Route: Oral
Exposure time: (90 d)
No observed adverse effect level: > 5000 mg/kg/d
Method: OECD 408

Species: Rat, male and female
Application Route: Inhalation
Exposure time: (90 d)
No observed adverse effect level: 100 mg/m3
Method: OECD Test Guideline 413

Genotoxicity in vitro

Anisole : Test Method: In vitro gene mutation study in mammalian cells
Cell type: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Result: negative
Method: OECD Test Guideline 476

Propylene carbonate : Test Method: Ames test
Cell type: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Result: negative
Method: OECD Test Guideline 471

: Test Method: Chromosome aberration test in vitro
Cell type: Chinese hamster fibroblasts
Metabolic activation: with and without metabolic activation
Result: negative
Method: OECD Test Guideline 473

: Test Method: reverse mutation assay
Cell type: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471

: Test Method: reverse mutation assay
Cell type: Escherichia coli
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471

: Test Method: unscheduled DNA synthesis assay
Cell type: rat hepatocytes
Metabolic activation: without metabolic activation
Result: negative

Method: OECD Test Guideline 482

Genotoxicity in vivo
Propylene carbonate : Test Method: Micronucleus test
Species: Mouse
Cell type: Micronucleus
Application Route: Intraperitoneal injection
Method: OECD Test Guideline 474
Result: negative

Carcinogenicity
Propylene carbonate : Species: Mouse, male
Application Route: Dermal
Note: Did not show carcinogenic effects in animal experiments.

Reproductive toxicity
Propylene carbonate : Species: Rat
Application Route: Oral
Note: No toxicity to reproduction

Species: Rat
Application Route: Inhalation exposure
Note: No toxicity to reproduction

Teratogenicity
Propylene carbonate : Species: Rat
Application Route: Oral
Note: Did not show teratogenic effects in animal experiments.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity to daphnia and other aquatic invertebrates
Anisole : EC50: 27 mg/l
Exposure time: 48 h
Species: Daphnia (water flea)
Method: OECD Test Guideline 202

Toxicity to algae

Anisole : static test
EC50: 30 mg/l
Exposure time: 72 h
Species: Pseudokirchneriella subcapitata (algae)
Method: OECD Test Guideline 201

static test
EC50: 47 mg/l
Exposure time: 72 h
Species: Pseudokirchneriella subcapitata (algae)
Method: OECD Test Guideline 201

Propylene carbonate : EC50: > 900 mg/l
Exposure time: 72 h
Species: scenedesmus subspicatus
Method: OECD Test Guideline 201

EC50: > 900 mg/l
Exposure time: 72 h
Species: scenedesmus subspicatus
Method: OECD Test Guideline 201

Biodegradability

Anisole : Result: Readily biodegradable.

Propylene carbonate : Result: Readily biodegradable.
Method: OECD 301 B

Further information on ecology

Additional ecological information : Should not be released into the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : Observe all Federal, State, and Local Environmental regulations.

SECTION 14. TRANSPORT INFORMATION

DOT

UN/ID No.	:	UN 2222
Proper shipping name	:	ANISOLE SOLUTION
Class		3
Packing group		III
Hazard Labels		3

IATA

UN/ID No.	:	UN 2222
Description of the goods	:	ANISOLE SOLUTION
Class	:	3
Packaging group	:	III
Hazard Labels	:	3
Packing instruction (cargo aircraft)	:	366
Packing instruction (passenger aircraft)	:	355
Packing instruction (passenger aircraft)	:	Y344

IMDG

UN/ID No.	:	UN 2222
Description of the goods	:	ANISOLE SOLUTION
Class	:	3
Packaging group	:	III
Hazard Labels	:	3
EmS Number	:	F-E, S-D
Marine pollutant	:	no

IMDG Code segregation group according chapter 3.1.4.4 : NONE,

SECTION 15. REGULATORY INFORMATION

Inventories

US. Toxic Substances Control Act	:	On TSCA Inventory
Australia. Industrial Chemical (Notification and Assessment) Act	:	On the inventory, or in compliance with the inventory
Canada. Canadian	:	All components of this product are on the Canadian DSL

Environmental Protection Act (CEPA). Domestic Substances List (DSL)		
Japan. Kashin-Hou Law List	:	On the inventory, or in compliance with the inventory
Korea. Existing Chemicals Inventory (KECI)	:	On the inventory, or in compliance with the inventory
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	:	On the inventory, or in compliance with the inventory
China. Inventory of Existing Chemical Substances (IECSC)	:	On the inventory, or in compliance with the inventory
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	:	On the inventory, or in compliance with the inventory

National regulatory information

SARA 302 Components	:	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Hazards	:	Fire Hazard Acute Health Hazard

California Prop. 65	:	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.	
New Jersey RTK	:	Anisole	100-66-3

SECTION 16. OTHER INFORMATION

		HMIS III	NFPA
Health hazard	:	2	2
Flammability	:	2	2
Physical Hazard	:	0	
Instability	:		0

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this 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. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

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