# **IRM 901**

# HOLLYFRONTIER SPECIALTY PRODUCTS AN HF SINCLAIR BRAND

000003010034

Version 2.1 Revision Date 2023/03/28 Print Date 2023/03/28

#### **SECTION 1. IDENTIFICATION**

Product name : IRM 901

Synonyms : Product code: 101663

Manufacturer or supplier's details

HollyFrontier Specialty Products 1700 South Union Avenue

Tulsa OK 74107 United States

Telephone: Customer Service: (800) 456-4786

**Emergency telephone number** 

Emergency telephone num: CHEMTREC: 1-800-424-9300; CCN: 999116

ber Poison Control Centre: Consult local telephone directory for

emergency number(s).

Recommended use of the chemical and restrictions on use

Recommended use : Reference Oil

Prepared by : Product Safety

# **SECTION 2. HAZARDS IDENTIFICATION**

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

**GHS** label elements

Not a hazardous substance or mixture.

Other hazards

None known.

IARC No component of this product present at levels greater than

or equal to 0.1% is identified as probable, possible or con-

firmed human carcinogen by IARC.

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 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Distillates (petroleum), solvent-	64742-65-0	30 - 70

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dewaxed heavy paraffinic; Baseoil — unspecified		
Residual oils (petroleum), solvent-	64742-62-7	30 - 70
dewaxed; Baseoil — unspecified		

Actual concentration is withheld as a trade secret

**SECTION 4. FIRST AID MEASURES** 

If inhaled : Move to fresh air.

Artificial respiration and/or oxygen may be necessary.

Seek medical advice.

In case of skin contact : In case of contact, immediately flush skin with plenty of water

for at least 15 minutes while removing contaminated clothing

and shoes.

Wash skin thoroughly with soap and water or use recognized

skin cleanser.

Wash clothing before reuse.

Seek medical advice.

In case of eye contact : Remove contact lenses.

Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes. Obtain medical attention.

If swallowed : Rinse mouth with water.

DO NOT induce vomiting unless directed to do so by a physi-

cian or poison control center.

Never give anything by mouth to an unconscious person.

Seek medical advice.

Most important symptoms and effects, both acute and

delayed

First aider needs to protect himself.

Notes to physician : Treat symptomatically.

**SECTION 5. FIREFIGHTING MEASURES** 

Suitable extinguishing media : Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Unsuitable extinguishing

media

Do NOT use water jet.

Specific hazards during fire-

fighting

Cool closed containers exposed to fire with water spray.

Hazardous combustion prod-

ucts

Carbon oxides (CO, CO2), smoke and irritating vapours as

products of incomplete combustion.

Further information : Prevent fire extinguishing water from contaminating surface

water or the ground water system.

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Special protective equipment :

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emer-

gency procedures

Use personal protective equipment.

Ensure adequate ventilation. Evacuate personnel to safe areas. Material can create slippery conditions.

Mark the contaminated area with signs and prevent access to

unauthorized personnel.

Only qualified personnel equipped with suitable protective

equipment may intervene.

Environmental precautions : Do not allow uncontrolled discharge of product into the envi-

ronment.

Methods and materials for containment and cleaning up

Prevent further leakage or spillage if safe to do so.

Remove all sources of ignition. Soak up with inert absorbent material.

Non-sparking tools should be used.
Ensure adequate ventilation.

Contact the proper local authorities.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on protection against

fire and explosion

None known.

Advice on safe handling : For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Use only with adequate ventilation.

In case of insufficient ventilation, wear suitable respiratory

equipment.

Avoid contact with skin, eyes and clothing.

Do not ingest.

Keep away from heat and sources of ignition.

Keep container closed when not in use.

Do not handle at temperatures >40°C, unless wearing appro-

priate protective equipment.

Conditions for safe storage : Store in original container.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Keep in a dry, cool and well-ventilated place.

Keep in properly labelled containers.

To maintain product quality, do not store in heat or direct sun-

light.

### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Components with workplace control parameters

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Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Distillates (petroleum), solvent-	64742-65-0	TWA (Inhal-	5 mg/m3	ACGIH
dewaxed heavy paraffinic;		able particu-		
Baseoil — unspecified		late matter)		
		TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Mist)	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
Residual oils (petroleum), solvent-dewaxed; Baseoil — unspecified	64742-62-7	TWA (Inhal- able particu- late matter)	5 mg/m3	ACGIH
		TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Mist)	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL

**Engineering measures** : No special ventilation requirements. Good general ventilation

should be sufficient to control worker exposure to airborne

contaminants.

#### Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust

ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe

working limits of the selected respirator.

Filter type : organic vapour filter

Hand protection

Material : neoprene, nitrile, polyvinyl alcohol (PVA), Viton®.

Remarks : Chemical-resistant, impervious gloves complying with an

approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is nec-

essary.

Eye protection : Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : Choose body protection in relation to its type, to the concen-

tration and amount of dangerous substances, and to the spe-

cific work-place.

Protective measures : Wash contaminated clothing before re-use.

Hygiene measures : Remove and wash contaminated clothing and gloves, includ-

ing the inside, before re-use.

Wash face, hands and any exposed skin thoroughly after

handling.

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Appearance : liquid

Colour : amber

Odour : slight

Odour Threshold : No data available

pH : Not applicable

Pour point :  $-12 \,^{\circ}\text{C} \, (10 \,^{\circ}\text{F})$ 

Boiling point/boiling range : 316 - 718 °C (601 - 1324 °F)

Flash point :  $> 218 \,^{\circ}\text{C} \, (> 424 \,^{\circ}\text{F})$ 

Method: Cleveland open cup

Fire Point : No data available

Evaporation rate : No data available

Flammability : Remarks: No data available

Auto-Ignition Temperature : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapour pressure : < 0.000013 kPa (68 °F / 20 °C)

Relative vapour density : No data available

Relative density : 0.88 (61 °F / 16 °C)

Density : No data available

Solubility(ies)

Water solubility : insoluble

Partition coefficient: n-

octanol/water

: log Pow: 2 - 6

Viscosity

Viscosity, kinematic : > 97 cSt (104 °F / 40 °C)

> 11 cSt (212 °F / 100 °C)

> 500 sus (100 °F / 38 °C)

Explosive properties : Do not pressurize, cut, weld, braze, solder, drill, grind or ex-

pose containers to heat or sources of ignition.

Molecular weight : > 505 g/mol

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#### **SECTION 10. STABILITY AND REACTIVITY**

Possibility of hazardous reac- :

tions

Hazardous polymerisation does not occur.

Stable under normal conditions.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Reactive with oxidising agents.

Hazardous decomposition

products

Under normal conditions of storage and use, hazardous de-

composition products should not be produced.

Thermal decomposition products may include the following materials: carbon dioxide, carbon monoxide, and other as-

phyxiants.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Eye contact Ingestion Inhalation Skin contact

#### **Acute toxicity**

#### **Product:**

Acute oral toxicity : Remarks: No data available

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: No data available

Acute dermal toxicity : Remarks: No data available

#### **Components:**

Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg,

Acute inhalation toxicity : LC50 (Rat): > 5.53 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg,

Residual oils (petroleum), solvent-dewaxed; Baseoil — unspecified:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg,

Acute inhalation toxicity : LC50 (Rat): > 5.53 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 3,000 mg/kg,

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#### Skin corrosion/irritation

**Product:** 

Remarks : Non-irritating to the skin. Heated material can cause thermal

burns.

# Serious eye damage/eye irritation

**Product:** 

Remarks : Non-irritating to the eyes. Heated material can cause thermal

burns.

#### Respiratory or skin sensitisation

**Product:** 

Remarks: No evidence of skin sensitization.

Germ cell mutagenicity

**Product:** 

Genotoxicity in vitro : Remarks: Not considered to be a germ cell mutagen.

Carcinogenicity

**Product:** 

Remarks : The mineral oils in the product contain < 3% DMSO extract (IP

346). Not considered to be carcinogenic.

Reproductive toxicity

**Product:** 

Effects on fertility : Remarks: Not considered to be toxic to the reproductive sys-

tem.

Effects on foetal develop-

ment

Remarks: Not considered to be teratogenic.

STOT - single exposure

**Product:** 

Remarks : Acute exposure studies show no evidence of systemic toxicity.

STOT - repeated exposure

**Product:** 

Remarks : Repeat dose toxicity data shows no evidence of target organ

toxicity.

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### **Aspiration toxicity**

#### **Product:**

Not expected to be an aspiration hazard.

#### **Further information**

**Product:** 

Remarks Prolonged or repeated contact can defat the skin and lead to

irritation, cracking and/or dermatitis.

#### **SECTION 12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

**Product:** 

Remarks: No data available Toxicity to fish

Toxicity to daphnia and other :

aquatic invertebrates

Remarks: No data available

Toxicity to algae/aquatic

plants

Remarks: No data available

Toxicity to microorganisms Remarks: No data available

### Components:

Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil — unspecified:

Toxicity to fish : LC50 (Fish): > 100 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia (water flea)): > 100 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50 (algae): > 100 mg/l Exposure time: 72 h

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia (water flea)): > 1 mg/l

Exposure time: 21 d

Residual oils (petroleum), solvent-dewaxed; Baseoil — unspecified :

Toxicity to fish LC50 (Fish): > 100 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia (water flea)): > 100 mg/l

Toxicity to algae/aquatic

plants

Exposure time: 48 h

EC50 (algae): > 100 mg/l Exposure time: 72 h

# Persistence and degradability

#### **Product:**

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Biodegradability : Result: Inherently biodegradable.

Bioaccumulative potential

No data available Mobility in soil

No data available

Other adverse effects

**Product:** 

Additional ecological infor-

mation

This product has no known ecotoxicological effects.

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Waste from residues : The product should not be allowed to enter drains, water

courses or the soil.

Offer surplus and non-recyclable solutions to a licensed dis-

posal company.

Waste must be classified and labelled prior to recycling or

disposal.

Send to a licensed waste management company.

Dispose of product residue in accordance with the instructions

of the person responsible for waste disposal.

Contaminated packaging : Do not re-use empty containers.

#### **SECTION 14. TRANSPORT INFORMATION**

# International Regulations

**IATA-DGR** 

Not regulated as a dangerous good

**IMDG-Code** 

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

**National Regulations** 

49 CFR

Not regulated as a dangerous good

#### **SECTION 15. REGULATORY INFORMATION**

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

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

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SARA 311/312 Hazards : No SARA Hazards

SARA 313 : 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.

Clean Water Act

Not applicable

**US State Regulations** 

Massachusetts Right To Know

Distillates (petroleum), solvent-dewaxed heavy paraffinic; 64742-65-0

Baseoil — unspecified:

Residual oils (petroleum), solvent-dewaxed; Baseoil — un- 64742-62-7

specified:

Pennsylvania Right To Know

Distillates (petroleum), solvent-dewaxed heavy paraffinic; 64742-65-0

Baseoil — unspecified

Residual oils (petroleum), solvent-dewaxed; Baseoil — un- 64742-62-7

specified

**New Jersey Right To Know** 

Distillates (petroleum), solvent-dewaxed heavy paraffinic; 64742-65-0

Baseoil — unspecified

Residual oils (petroleum), solvent-dewaxed; Baseoil — un- 64742-62-7

specified

**New York City Hazardous Substances** 

Distillates (petroleum), solvent-dewaxed heavy paraffinic; 64742-65-0

Baseoil — unspecified

Residual oils (petroleum), solvent-dewaxed; Baseoil — un- 64742-62-7

specified

California Prop. 65 This product does not contain any chemicals known to State

of California to cause cancer, birth defects, or any other re-

productive harm. For more information go to

www.P65Warnings.ca.gov.

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

TSCA : All chemical substances in this product are either listed on the

TSCA Inventory or are in compliance with a TSCA Inventory

exemption.

AIIC : On the inventory, or in compliance with the inventory

DSL : On the inventory, or 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 : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

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NZIoC : On the inventory, or in compliance with the inventory

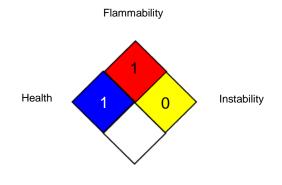
EINECS : On the inventory, or in compliance with the inventory

TCSI : On the inventory, or in compliance with the inventory

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

#### NFPA 704:



Special hazard

#### 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 other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA PO : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated

values)

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

ACGIH / TWA : 8-hour, time-weighted average

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour

workday during a 40-hour workweek

NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded

at any time during a workday

OSHA P0 / TWA : 8-hour time weighted average OSHA Z-1 / TWA : 8-hour time weighted average

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 - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Har-

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monized 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

Prepared by : Product Safety

Revision Date : 2023/03/28 Date format : yyyy/mm/dd

The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.

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.

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