

SAFETY DATA SHEET

KOVKLEEN[™] Formula One

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

Product Identifier KOVKLEEN Formula One

Product Use Description Cleaning Agent

Manufacturer/Importer/Supplier/Distributor Information

Company Name John R Hess & Company, Inc.

Address 400 Station St

Cranston, RI 02910

USA

Telephone (401) 785-9300 (800) 556-4377

Emergency Phone Numbers Infotrac 1-800-535-5053 (Spill, Leak, Fire, Exposure, Accident)

+1 (352) 323-3500 (Outside North America)

SECTION 2: Hazards identification

Although OSHA has not adopted the environmental portion of the GHS regulations, this document may include information on environmental effects.

Classification of the substance or mixture

HCS 2012 (29 CFR 1910.1200)

Serious eye damage, Category 1 H318: Causes serious eye damage. Skin sensitization, Category 1 H317: May cause an allergic skin reaction.

Label elements

HCS 2012 (29 CFR 1910.1200)

Pictogram





Signal Word

Danger

Hazard Statements:

H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.

Precautionary Statements:

Prevention

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear eye protection/ face protection.

P280 Wear protective gloves.

Response

P310 P333 + P313

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. If skin irritation or rash occurs: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

Other hazards which do not result in classification

H402: Harmful to aquatic life.

H412: Harmful to aquatic life with long lasting effects.

Slightly irritating to the skin.

SECTION 3: Composition/information on ingredients

Substance

Synonyms Ethoxylated Thioether

Hazardous Ingredients and Impurities

Chemical Name	Identification number CAS-No.	Concentration [%]
Ethoxylated Dodecyl Mercaptan	9004-83-5	90 - 100

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Non-Hazardous Ingredients and Impurities

Chemical Name	Identification number CAS-No.	Concentration [%]
Water	7732-18-5	4 - 6

Mixture

Not applicable, this product is a substance.

SECTION 4: First aid measures

Description of first-aid measures

General advice Show this material safety data sheet to the doctor in attendance.

First responder needs to protect himself.

If inhaled Negligible or unlikely exposure pathways

If inhaled, remove to fresh air. Consult a physician if necessary. Skin contact In case of contact, immediately flush skin with plenty of water for at least 15

minutes while removing contaminated clothing and shoes. Get medical attention if irritation develops and persists.

Wash contaminated clothing before re-use.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes.

Seek medical advice.

Ingestion Do not induce vomiting without medical advice.

If victim is conscious: Rinse with water. Keep at rest.

Do not give anything to drink.
Do not leave the victim unattended.
Vomiting may occur spontaneously

Risk of product entering the lungs on vomiting after ingestion.

Lay victim on side. Seek medical advice.

Most important symptoms and effects, both acute and delayed

Risks Skin contact may aggravate existing skin disease

Inhalation of product may aggravate existing chronic respiratory problems

such as asthma, emphysema or bronchitis

Indication of any immediate medical attention and special treatment needed

Notes to physician All treatments should be based on observed signs and symptoms of distress

in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Treat symptomatically.

There is no specific antidote available.

SECTION 5: Firefighting measures

Flash point $> 200 \, ^{\circ}\text{F} \, (> 93 \, ^{\circ}\text{C})$

closed cup

Flammability class: Will burn

Autoignition temperature no data available

Flammability / Explosive limit no data available

Extinguishing media

Suitable extinguishing media Extinguishing media - small fires

Dry chemical

Carbon dioxide (CO2)

Extinguishing media - large fires

Foam Water spray

Unsuitable extinguishing media High volume water jet

(frothing possible)

Special hazards arising from the substance or mixture

Specific hazards during fire-fighting Under fire conditions:

Will burn

Hazardous decomposition products formed under fire conditions. On combustion or on thermal decomposition (pyrolysis), releases:

Carbon oxides Sulfur oxides

Advice for firefighters

Special protective equipment for fire-fighters Firefighters should wear NIOSH/MSHA approved self-contained breathing

apparatus and full protective clothing.

Further information Collect contaminated fire extinguishing water separately. This must not be

discharged into drains.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions, protective equipment and

emergency procedures

Wear suitable protective equipment.

For further information refer to section 8 "Exposure controls / personal

protection."

Avoid contact with the skin and the eyes.

Do not allow uncontrolled discharge of product into the environment.

Stop the leak. Turn leaking containers leak-side up to prevent the escape of

liquid.

Environmental precautions

Environmental precautions Do not flush into surface water or sanitary sewer system.

Take all necessary measures to avoid accidental discharge of products into drains

and waterways due to the rupture of containers or transfer systems.

Spills may be reportable to the National Response Center (800-424-8802) and

to state and/or local agencies

Methods and materials for containment and cleaning up

Recovery Soak up with inert absorbent material.

Shovel or sweep up.

Keep in suitable, closed containers for disposal. Never return spills in original containers for re-use.

Decontamination / cleaning Clean contaminated surface thoroughly.

Wash nonrecoverable remainder with large amounts of water.

Recover the cleaning water for subsequent disposal.

Decontaminate tools, equipment and personal protective equipment in a

segregated area.

Disposal Dispose of in accordance with local regulations.

Additional advice Material can create slippery conditions.

Reference to other sections

Reference to other sections 7. HANDLING AND STORAGE

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

13. DISPOSAL CONSIDERATIONS

SECTION 7: Handling and storage

Precautions for safe handling

Technical measures : Ethylene oxide may collect in container head space.

Provide adequate ventilation.

Advice on safe handling and usage : Handle in accordance with good industrial hygiene and safety practice.

Avoid inhalation of vapor or mist. Avoid contact with skin and eyes. Hygiene measures

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

- 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- 3) Wash exposed skin promptly to remove accidental splashes or contact with material.

Conditions for safe storage, including any incompatibilities

Technical Measures for storage Take all necessary measures to avoid accidental discharge of products into

drains and waterways due to the rupture of containers or transfer systems.

Storage conditions

Recommended Keep container tightly closed in a dry and well-ventilated place.

To be avoided Keep away from open flames, hot surfaces and sources of ignition.

Keep away from incompatible materials to be indicated by the manufacturer

Incompatible products Strong oxidizing agents

Strong reducing agents.

Packaging Measures

Packaging conditions Steel drums with an inner lining.

Packaging material —Recommended Coated steels.

Storage stability

Storage temperature no data available

Other data Stable under recommended storage conditions.

Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

Introductory Remarks:

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations.

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

Control parameters

Contains no substances with occupational exposure limit values.

Exposure controls

Control measures

Engineering measures Where engineering controls are indicated by use conditions or a potential for

excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures:

Effective exhaust ventilation system

Personal protective equipment

Respiratory protection When respirators are required, select NIOSH/MSHA approved equipment

based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.

Hand protection Recommended preventive skin protection

Gloves

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the

danger of cuts, abrasion, and the contact time.

Eye protection Eye and face protection requirements will vary dependent upon work

environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended

for this material.

Eye contact should be prevented through the use of:

Safety glasses with side-shields

Skin and body protection Recommended preventive skin protection

Footwear protecting against chemicals

impervious clothing

Choose body protection according to the amount and concentration of the

dangerous substance at the work place.

Hygiene measures Personal hygiene is an important work practice exposure control measure and

the following general measures should be taken when working with or

handling this material:

1) Do not store, use, and/or consume foods, beverages, tobacco products, or

cosmetics in areas where this material is stored.

2) Wash hands and face carefully before eating, drinking, using tobacco,

applying cosmetics, or using the toilet.

3) Wash exposed skin promptly to remove accidental splashes or contact with

material.

Protective measures Ensure that eyewash stations and safety showers are close to the workstation

location.

Emergency equipment immediately accessible, with instructions for use. Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use,

and the potential hazards, and/or risks that may occur during use.

The protective equipment must be selected in accordance with current local standards and in cooperation with the supplier of the protective equipment.

SECTION 9: Physical and chemical properties

Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product information phone number in Section 1 for its exact specifications.

Information on basic physical and chemical properties

Appearance Form: viscous

Physical state: liquid

Color: colorless to pale yellow.

Odor slight

Odor Threshold no data available

pH 5.0 - 8.0 (10 % (m/v)) Aqueous solution

Melting point/range ca. 32 °F (0 °C)

Freezing point ca. 43 °F (6 °C)

Flash point > 200 °F (> 93 °C) closed cup

Flammability class: Will burn

Evaporation rate (Butylacetate = 1) no data available

Flammability (solid, gas) no data available

Flammability (liquids) no data available

Flammability / Explosive limit no data available

Autoignition temperature no data available

Vapor pressure < 1 mmHg 1.33 hPa

Vapor density no data available

Density ca. 1.05 g/cm3 (77 °F (25 °C))

Solubility Water solubility:

soluble

Solubility in other solvents:

common organic solvents : soluble

Partition coefficient: n-octanol/water no data available

Thermal decomposition 392 °F (200 °C)

Viscosity no data available

Explosive properties no data available

Oxidizing properties Nonoxidizing material according to EC criteria

Other information

Volatiles by Volume < 6 %

SECTION 10: Stability and reactivity

Reactivity

no data available

Chemical stability

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions

Polymerization Hazardous polymerization does not occur.

Conditions to avoid

Conditions to avoid Keep away from heat and sources of ignition.

Incompatible materials

Materials to avoid Strong oxidizing agents

Strong reducing agents

Hazardous decomposition products

Decomposition products On combustion or on thermal decomposition (pyrolysis), releases:

Sulfur oxides Carbon oxides

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Acute oral toxicity LD50: > 2,000 mg/kg - Rat

Information given is based on data obtained from similar substances.

Unpublished internal reports May be harmful if swallowed.

Acute inhalation toxicity Not classified as hazardous for acute toxicity according to GHS

According to the data on the constituents

Acute dermal toxicity Not classified as hazardous for acute toxicity according to GHS

According to the data on the constituents

Acute toxicity (other routes of administration) : no data available

Skin corrosion/irritation

Skin irritation Mild skin irritation

Information given is based on data obtained from similar substances.

Unpublished internal reports

Serious eye damage/eye irritation

Eye irritation Risk of serious damage to eyes.

Information given is based on data obtained from similar substances.

Unpublished internal reports

Respiratory or skin sensitization

Sensitization Local lymph node assay - Mouse

May cause sensitization by skin contact.

Unpublished internal reports

Mutagenicity

Genotoxicity in vitro According to the data on the constituents

Product is not considered to be genotoxic

Genotoxicity in vivo According to the data on the constituents

Product is not considered to be genotoxic

Carcinogenicity

Carcinogenicity no data available

This product does not contain any ingredient designated as probable or suspected human carcinogens by:

NTP IARC OSHA ACGIH

Toxicity for reproduction and development

Toxicity to reproduction / fertility no data available

Developmental Toxicity/Teratogenicity no data available

STOT

STOT-single exposure no data available

STOT-repeated exposure : Toxicology Assessment:

The substance or mixture is not classified as specific target organ toxicant,

repeated exposure.

Aspiration toxicity

Aspiration toxicity : No aspiration toxicity classification

SECTION 12: Ecological information

Toxicity

Aquatic Compartment

Acute toxicity to fish

The product itself has not been tested

Acute toxicity to daphnia and other aquatic invertebrates.

The product itself has not been tested

Toxicity to aquatic plants

The product itself has not been tested
Toxicity to microorganisms

The product itself has not been tested
Chronic toxicity to fish

The product itself has not been tested
The product itself has not been tested
The product itself has not been tested

Sediment compartment

Toxicity to benthic organisms

The product itself has not been tested

Terrestrial Compartment

Toxicity to soil dwelling organisms

The product itself has not been tested
Toxicity to terrestrial plants

The product itself has not been tested
Toxicity to above ground organisms

The product itself has not been tested

Ecotoxicity assessment

Acute aquatic toxicity

Harmful to aquatic life.

Information given is based on data obtained from similar

substances. Unpublished internal reports

Chronic aquatic toxicity

Harmful to aquatic life with long lasting effects.

Information given is based on data obtained from similar

substances.

Persistence and degradability

Biodegradability Ultimate aerobic biodegradability

Partially biodegradable Unpublished internal reports

Information given is based on data obtained from similar

substances.

Degradability assessment

The product is not considered to be rapidly degradable in

the environment No data available

Bioaccumulative potential

Mobility in soil

Known distribution to environmental compartments

Ultimate destination of the product: Water

Results of PBT and vPvB assessment No data available

Other Adverse Effects No data available

SECTION 13: Disposal considerations

Waste treatment methods

Product Disposal

Advice on Disposal Chemical additions, processing or otherwise altering this material may make

the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations

regarding the proper disposal of this material.

Waste Code EPA:

Hazardous Waste - NO

Advice on cleaning and disposal of packaging

Advice on Disposal

Rinse with an appropriate solvent.

Dispose of contents/container in accordance with local regulation.

SECTION 14: Transport information

DOT

not regulated

TDG

not regulated

IMDG

not regulated

IATA

not regulated

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transportation regulations for hazardous materials, it would be advisable to check their validity with your sales office.

SECTION 15: Regulatory information

Notification status

United States TSCA Inventory

y (positive listing)
On TSCA Inventory

Canadian Domestic Substances List (DSL) y (positive listing)

All components of this product are on the

Canadian DSL.

Australia Inventory of Chemical Substances (AICS) y (positive listing)

On the inventory, or in compliance with the

inventory

Japan. CSCL - Inventory of Existing and New Chemical Substances y (positive listing)

On the inventory, or in compliance with the

inventory

Korea. Korean Existing Chemicals Inventory (KECI) y (positive listing)

On the inventory, or in compliance with the

inventory

China. Inventory of Existing Chemical Substances in China (IECSC)

y (positive listing)

On the inventory, or in compliance with the

inventory

Federal Regulations

SARA 311/312 Hazards

CATA CT I/CTZ HUZUI US	
Fire Hazard	no
Reactivity Hazard	no
Sudden Release of Pressure Hazard	no
Acute Health Hazard	yes
Chronic Health Hazard	no

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.

SARA 302

: No chemicals in this material are subject to the reporting requirements of

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

Ingredients	CAS-No.	Reportable quantity
Ethylene Oxide	75-21-8	10 lb
1,4-Dioxane	123-91-1	100 lb

SARA 304 Reportable Quantity

Ingredients	CAS-No.	Reportable quantity
Ethylene Oxide	75-21-8	10 lb

SARA 302 Reportable Quantity

Ingredients	CAS-No.	Reportable quantity
Ethylene Oxide	75-21-8	10 lb

State Regulations California Prop 65

WARNING! This product contains a chemical known in the State of California

to cause cancer. Ethylene Oxide 1,4-Dioxane

WARNING: This product contains a chemical known in the State of California

to cause birth defects or other reproductive harm.

Ethylene Oxide

No Significant Risk Levels (NSRLs) have been established for the following:

Ethylene Oxide

Value: 2 micrograms per day

1,4-Dioxane

Value: 30 micrograms per day

SECTION 16: Other information

NFPA-Classification

Health 2 moderate
Flammability 1 slight
Instability or Reactivity 0 minimal

HMIS-Classification

Health 2 moderate

Flammability : 1 slight
Reactivity : 0 minimal

Prepared By: Issue Date: Version: Precedes:

HSE Department

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Key or legend to abbreviations and acronyms used in the safety data sheet

ACGIH American Conference of Governmental Industrial Hygienists

OSHA Occupational Safety and Health Administration
WHMIS Workplace Hazardous Materials Information System

NTP National Toxicology Program

IARC International Agency for Research on Cancer

SAEL Solvay Acceptable Exposure Limit

SAFETY DATA SHEET

NIOSH NFPA HMIS National Institute for Occupational Safety and Health National Fire Protection Association Hazardous Materials Identification System (Paint & Coating)

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