## 1. PRODUCT AND COMPANY IDENTIFICATION

| | |
|---|---|
| Product Identifier | **KOVKLEEN 50** |
| General Use | ANTISCALANT / STABILIZER FOR INORGANIC FOULANT CONTROL |

**Manufacturer/Importer/Supplier/Distributor Information**

| | |
|---|---|
| Company Name | John R Hess & Company, Inc. |
| Address | 400 Station St<br>Cranston, RI 02910<br>USA |
| Telephone | (401) 785-9300 (800) 556-4377 |
| E-mail | custerv@jrhess.com |
| Emergency Phone Numbers | Infotrac 1-800-535-5053 (Spill, Leak, Fire, Exposure, Accident)<br>+1 (352) 323-3500 (Outside North America) |

## 2. HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

| | |
|---|---|
| Serious Eye Damage/Eye Irritation: | Category 1 |
| Acute Oral Toxicity: | Category 4 |
| Skin Corrosion/Irritation: | Category 1 |
| Corrosive to Metals: | Category 1 |

**Label elements**

**Pictogram**





**Signal Word:** Danger

**Hazard Statements**

H302 – Harmful if swallowed.
H314 – Causes severe skin burns and eye damage.
H371 – May be corrosive to metals

**Precautionary Statements**

P234 – Keep only in original container.
P260 – Do not breathe dust/fume/gas/mist/vapors/spray.
P264 - Wash face, hands and any exposed skin thoroughly after handling.

P270 – Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303+361+353 – IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical advice/ attention.
P310 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor / physician if you feel unwell
P330 - Rinse mouth.
P304+340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P363 – Wash contaminated clothing before reuse.
P390 – Absorb spillage to prevent material damage.
P405 – Store locked up.
P501 – Dispose of contents/container in accordance with all federal, state and local regulations.

**OTHER HAZARDS**

**POTENTIAL HEALTH EFFECTS, SKIN**

MAY BE IRRITATING. Contact may cause reddening, itching, inflammation, burns, blistering and possibly severe tissue damage.

**POTENTIAL HEALTH EFFECTS, INHALATION**

Breathing of the mists, vapors or fumes may irritate the nose, throat and lungs. Symptoms may include sore throat, coughing, labored breathing, sneezing and burning sensation, depending on the concentration and duration of exposure.

**POTENTIAL HEALTH EFFECTS, INGESTION**

May cause painful irritation and burning of the mouth and throat, painful swallowing, labored breathing, burns or perforation of the gastrointestinal tract leading to ulceration and secondary infection. Symptoms may include salivation, pain, nausea, vomiting and diarrhea.

Aspiration into lungs may cause chemical pneumonia and lung damage.

Other specific symptoms of exposure see "Toxicological Information" (Section 11)

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Ingredient Name | CAS Number | Concentration* | Exposure Limits / Health Hazards |
|---|---|---|---|
| 2-PROPENOIC ACID, HOMOPOLYMER, SODIUM SALT | 9003-04-7 | 10 - 15 % | ND |
| SODIUM HYDROXIDE | 1310-73-2 | 2 – 6 % | 2mg/m3 (PEL) |
| SODIUM BENZOATE | 532-32-1 | < 0.1% | ND |
| WATER | 7732-18-15 | To Q.S. | ND |

*Values do not reflect absolute minimums and maximums; these values are typical which may vary from time to time.
WHMIS Classification: 028, E.

## 4. FIRST AID MEASURES

**SKIN**

Immediately flush skin with plenty of water, for at least 15 minutes, while removing contaminated clothing and shoes. GET IMMEDIATE MEDICAL ATTENTION.

Place contaminated clothing in closed container for storage until laundered or discarded. If clothing is to be laundered, inform person performing operation of contaminant's hazardous properties.

Discard contaminated leather goods.

**EYE**

Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. GET IMMEDIATE MEDICAL ATTENTION.

**INHALATION**

Remove to fresh air. If not breathing, institute rescue breathing. If breathing is difficult, ensure airway is clear and give oxygen.

Keep affected person warm and at rest. GET IMMEDIATE MEDICAL ATTENTION.

**INGESTION**

Keep affected person warm and at rest. GET IMMEDIATE MEDICAL ATTENTION.

Never give anything by mouth to an unconscious person. Do not induce vomiting because of danger of aspirating liquid into lungs, causing serious damage and chemical pneumonitis.

Have victim rinse mouth thoroughly with water, then drink 2 to 8 oz. (60 to 240 ml) of water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Quickly transport to emergency care facility.

**NOTES TO PHYSICIAN**

This product is primarily an irritant and corrosive. As a corrosive, give attention to potential complication of esophagus or stomach perforations if ingested. Use of emetics and lavage are contraindicated. Necrosis and associated inflammatory processes peak at about 48 hours, but may extend up to four days. Initial healing processes occur during the period 4 to 14 days, but the esophageal wall is weakest during this period.

If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours.

## 5. FIRE FIGHTING MEASURES

**HAZARDOUS COMBUSTION PRODUCTS**

Combustion may produce COx, POx, phosphine.
EXTINGUISHING MEDIA
Material itself will not burn.

**BASIC FIRE FIGHTING PROCEDURES**

Evacuate area and fight fire from a safe distance.

Use extinguishing agent suitable for type of surrounding fire. Use water spray to cool adjacent structures and to protect personnel. Shut off source of flow if possible.

Firefighters must wear MSHA/NIOSH approved positive pressure breathing apparatus (SCBA) with full face mask and full protective equipment.

**UNUSUAL FIRE & EXPLOSION HAZARDS**

None known.

| | |
|---|---|
| Flash Point | NA (WATER BASE) |
| Autoignition Temperature | ND |
| Flammability Limits in Air, Lower, % by Volume | ND |
| Flammability Limits in Air, Upper, % by Volume | ND |

## 6. ACCIDENTAL RELEASE MEASURES

### EMERGENCY ACTION

Keep unnecessary people away. Isolate spill area and keep unnecessary people away.
Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation. Use personal protective equipment.

### ENVIRONMENTAL PRECAUTIONS

If product is released to the environment, take immediate steps to stop and contain release. Caution should be
exercised regarding personnel safety and exposure to the released product. Notify local, provincial and/or federal authorities, if required.

Methods and material for containment and cleaning up
Collect spillage and collect in suitable container for disposal.

Reference to other sections
Refer to protective measures listed in Sections 8 and 13.

### SPILL OR LEAK PROCEDURE

Large spills may be neutralized with dilute alkaline solutions of soda ash or lime. Stop leak when safe to do so. Do not touch or walk through spilled material.

## 7 HANDLING & STORAGE

### HANDLING

This material should be stored and shipped in plastic or plastic lined containers. Do not use with materials or equipment sensitive to acidic solutions.
Do not eat, drink or smoke in areas of use or storage.

### STORAGE

Avoid contact with strong oxidizers, bases, and metals. Store in tightly closed containers in cool, dry area away from heat and incompatibles.

Empty containers may contain product residue. Do not reuse without adequate precautions.

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### ENGINEERING CONTROLS

General or local exhaust ventilation and other forms of engineering controls are the preferred means for controlling exposures.

### EYE PROTECTION: PERSONAL PROTECTION EQUIPMENT (PPE)

Wear chemical safety goggles and face shield. Have eye washing facilities readily available where eye contact can occur.

### SKIN PROTECTION: PERSONAL PROTECTION EQUIPMENT (PPE)

Avoid skin contact with this material. If skin contact is anticipated, protective clothing, including impervious gloves, should be worn. Protective glove materials include, but are not limited to natural rubber, neoprene or nitrile.

Additional protection may be necessary to prevent skin contact including use of apron, arm covers, face shield, or boots. Provide safety showers at any location where skin contact can occur.

Use good personal hygiene.

**RESPIRATORY PROTECTION: PERSONAL PROTECTION EQUIPMENT {PPE)**

A NIOSH/MSHA approved air purifying respirator with an acid vapor cartridge or canister may be appropriate under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

## 9 PHYSICAL & CHEMICAL PROPERTIES

**ODOR AND APPEARANCE**

Clear, colorless liquid with an acidic odor

| | |
|---|---|
| Boiling Point | NA |
| Melting Point | NA |
| Specific Gravity | NA |
| Percent Volatile | NA |
| Vapor Pressure | NA |
| Vapor Density | NA |
| Bulk Density | NA |
| Solubility in Water | NA |
| Octanol/Water Partition | NA |
| Volatile Organic | NA |
| Pour Point | NA |
| pH (as is) | > 12.5 |
| Freezing Point | NA |
| Viscosity | NA |
| Evaporation Rate | NA |
| Molecular Formula | NA |
| Molecular Weight | NA |
| Chemical Family | Mixture |
| Odor Threshold | NA |

## 10 STABILITY & REACTIVITY

**STABILITY/INCOMPATIBILITY**

Incompatible with bases, and oxidizers. See precautions under Handling & Storage (Section 7).
HAZARDOUS REACTIONS/DECOMPOSI TION· PRODUCTS
Combustion may produce COx, POx, acid fumes, phosphine.

## 11 TOXICOLOGICAL INFORMATION

**ROUTES OF EXPOSURE**

Inhalation, ingestion, skin and eye contact.

LD50: Oral (rat): 300 mg/kg - 2,000 mg/kg

**TOXICOLOGICAL DATA**

Acute or chronic overexposure to this material or its components may cause systemic toxicity including adverse effects to the following: skin, eye, teeth, blood and respiratory system.

Exposure to components of this material may cause the following specific symptoms, depending on the concentration and duration of exposure: chronic obstructive pulmonary disease, erosion of teeth and chest pains. Other symptoms of exposure may include the following: cardiovascular collapse, acidosis, bloody diarrhea, bloody vomit and shock.

### PRE-EXISTING CONDITIONS AGGRAVATED BY EXPOSURE

Pre-existing medical conditions which may be aggravated by exposure include disorders of the skin, eye respiratory and cardiovascular systems.

## 12 ECOLOGICAL INFORMATION

### ECOTOXICOLOGI CAL INFORMATION

Not toxic to aquatic organisms and not suspected of long-term adverse effects in the aquatic environment.

## 13 DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL

This product, as supplied, when discarded or disposed of, is a hazardous waste according to Federal regulations (40 CFR 261) due to its corrosivity .. Under the Resource Conservation and Recovery Act (RCRA), it is the responsibility of the user of the product to determine, at the time of disposal, whether the material is a hazardous waste subject to RCRA.

The transportation, storage, treatment and disposal of RCRA waste material must be conducted in compliance with 40 CFR 262, 263, 264, 268 and 270. Disposal can occur only in properly permitted facilities. Check state and local regulations for any additional requirements as these may be more restrictive than federal laws and regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Disposal of this material must be conducted in compliance with all federal, state and local regulations.

In Canada, wastes should be disposed of according to federal, state, provincial and local regulations.

## 14 TRANSPORT INFORMATION

### BILL OF LADING • BULK (U. 5. DOT)

Corrosive Liquid, Basic, Inorganic, N.O.S. (Sodium Hydroxide), 8, UN3266, PG II

### BILL OF LADING • NON-BULK (U. 5. DOT)

Corrosive Liquid, Basic, Inorganic, N.O.S. (Sodium Hydroxide), 8, UN3266, PG II

The above description may not cover shipping in all cases, please consult 49 CFR 172.101 for specific shipping information.

## 15 REGULATORY INFORMATION

### FEDERAL REGULATIONS

All components of this product are listed on the TSCA Inventory.

This product, as supplied, contains no hazardous substances regulated under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302), or any extremely hazardous substances regulated under the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355), and thus a release of this product as supplied has no reporting requirements under these regulations.

Failure to report may result in substantial civil and criminal penalties. Check state and local regulations

for any additional requirements as these may be more restrictive than federal laws and regulations.

This product does not contain toxic chemicals (in excess of the applicable de minimis concentration) that are subject to the annual toxic chemical release reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) Section 313 (40 CFR 372).

There may be specific regulations at the local, regional or state/provincial level that pertain to this product.

**SARA TITLE III RATINGS**

Immediate Hazard: X Delayed Hazard: Reactivity Hazard: X Fire Hazard: Pressure Hazard:

**STATE REGULATIONS**

Based on available information this product does not contain any components or chemicals currently known to the State of California to cause cancer, birth defects or reproductive harm at levels which would be subject to Proposition 65. Reformulation, use or processing of this product may affect its composition and require re-evaluation.

PENNSYLVANIA - Non-hazardous ingredients present at >3%: Water, CAS # 7732-18-5

**INTERNATIONAL REGULATIONS**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this MSDS contains all the information required by the CPR.

WHMIS Classification: D2B, E.

All known major components of this product are listed on the Canadian DSL.

**WHMIS RATINGS**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Compressed Gas | | Flammable/Combustib | - | Oxidizer | | Acutely Toxic | |
| Other Toxic Effects | X | Bio Hazardous | | Corrosive | X | Dangerously Reactive | - |

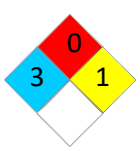
**HMIS RATING**

| | | |
|---|---|---|
| Health | * | 3 |
| Flammability | | 0 |
| Physical hazards | | 0 |
| | | |

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

**NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.)**




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## 16 OTHER INFORMATION

| | |
|---|---|
| Prepared By: | HSE Department |
| Issue Date: | 7/30/2025 |
| Version: | 4 |
| Precedes: | 12/27/2023 |

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