# The Cleaning Resource

# SAFETY DATA SHEET

# 1. Identification

Product identifier Re-Juv-Nal (1:64)

Other means of identification

SDS number 587N-047C Product code HII 00705RTU **Product registration** 1839-169-1658

number

Recommended use Disinfectant/Cleaner Recommended restrictions For Labeled Use Only

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

HILLYARD INDUSTRIES Company name **Address** 302 North Fourth St. St. Joseph, MO 64501

**Contact person** Regulatory Affairs

Telephone number (800) 365-1555 (Ext. 8206)

Fax (816) 383-8406

regulatoryaffairs@hillyard.com E-mail

(800) 424-9300 Emergency telephone #

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident

involving chemicals)

# 2. Hazard(s) identification

Physical hazards Not classified. Not classified. **Health hazards Environmental hazards** Not classified. **OSHA** defined hazards Not classified.

Label elements

**Hazard symbol** None. Signal word None.

**Hazard statement** The mixture does not meet the criteria for classification.

**Precautionary statement** 

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage Store away from incompatible materials.

**Disposal** Buyer assumes all risk and liability associated with disposal of this product (original

> concentration or dilution) in violation of applicable law in compliance with applicable federal, state and local requirements. CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer

clean, dry container for recycling or reconditioning.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

SDS US Material name: Re-Juv-Nal (1:64) 1/7

# 3. Composition/information on ingredients

#### **Mixtures**

The manufacturer lists no ingredients as hazardous to health according to OSHA 29 CFR 1910.1200.

#### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact

lenses.

Ingestion Rinse mouth. Get medical attention if symptoms occur. Most important

symptoms/effects, acute and

delayed

Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special treatment

needed

Treat symptomatically.

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

and precautions for firefighters

Fire fighting equipment/instructions Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

# 6. Accidental release measures

Personal precautions. protective equipment and emergency procedures

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to

remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the

SDS.

**Environmental precautions** Avoid release to the environment.

# 7. Handling and storage

Precautions for safe handling Avoid prolonged exposure. Observe good industrial hygiene practices.

Conditions for safe storage, Store in tightly closed container. Store away from incompatible materials (see Section 10 of the including any incompatibilities SDS).

#### 8. Exposure controls/personal protection

# Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Material name: Re-Juv-Nal (1:64) 2/7 Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. General ventilation normally adequate.

Individual protection measures, such as personal protective equipment

Eye/face protection Where splashing of concentrate is a concern, use protective glasses with side shield

Skin protection

**Hand protection** Use protective gloves when dealing with the concentrate.

Other Not normally needed.

**Respiratory protection** Not normally required with adequate ventilation.

Thermal hazards None known.

General hygiene considerations Always observe good personal hygiene measures, such as washing after handling the material

and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

# 9. Physical and chemical properties

Appearance Clear, light red liquid

Physical state Liquid.
Form Liquid.
Color Light red
Odor Floral odor
Odor threshold Not available.
pH 6.5 - 7.5

Melting point/freezing point Not applicable / Not available

Initial boiling point and boiling 207

range

207 °F (97.22 °C)

Flash point Not available.

Evaporation rate <1 Ethyl ether = 1

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not applicable
Explosive limit - upper (%) Not applicable

Vapor pressure17.6 mm HgVapor density0.6 Air = 1Relative density $1 \text{ at } 77^{\circ}\text{F}$ 

Solubility(ies)

Solubility (water) 100 % Complete

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

Density8.33 lb/galExplosive propertiesNot explosive.Oxidizing propertiesNot oxidizing.

Percent volatile >98 %
VOC 0.01 %

Material name: Re-Juv-Nal (1:64)

# 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

**Hazardous decomposition** 

products

Upon decomposition, this product may yield oxides of nitrogen and ammonia.

# 11. Toxicological information

#### Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact May be irritating to the skin.

Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion Ingestion of diluted material may cause gastrointestinal tract irritation.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

#### Information on toxicological effects

#### Acute toxicity

Product	Species	Test Results

Re-Juv-Nal (1:64)

**Acute** 

Dermal

LD50 Rabbit 21557510 mg/kg

Inhalation

LC50 Rat 1248375 mg/l, 4 Hours

Oral

LD50 Rat

317344 mg/kg Components **Species Test Results** 

Didecyl dimethyl ammonium chloride (CAS 7173-51-5)

**Acute** Oral

LD50 Rat 84 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

# IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

# US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

SDS US Material name: Re-Juv-Nal (1:64) 4/7 **Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

**Further information** This product has no known adverse effect on human health.

# 12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product		Species	Test Results	
Re-Juv-Nal (1:64)				
Aquatic				
Crustacea	EC50	Daphnia	8224.377 mg/l, 48 hours	
Fish	LC50	Fish	3834.9241 mg/l, 96 hours	
Acute				
Crustacea	EC50	Daphnia	1078.0726 mg/l, 48 hours estimated	
Fish	LC50	Fish	0.1998 mg/l, 96 hours estimated	
Components		Species	Test Results	
Didecyl dimethyl ammonium chloride (CAS 7173-51-5)				
Aquatic				
Acute				
Fish	LC50	White sturgeon (Acipenser	0.0001 - 0.001 mg/l, 96 hours	

Persistence and degradability

No data is available on the degradability of this product.

transmontanus)

Bioaccumulative potential

Mobility in soil No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Buyer

assumes all risk and liability associated with disposal of this product (original concentration or

dilution) in violation of applicable law.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the

waste disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Waste from normal product use may be sewered to a public owned treatment works (POTW) in compliance with applicable Federal, State, and local pretreatment

requirements.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container

is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Triple rinse (or equivalent). Then offer clean, dry container for recycling or

reconditioning.

# 14. Transport information

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

Not established.

Material name: Re-Juv-Nal (1:64)

# 15. Regulatory information

US federal regulations This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

**Toxic Substances Control Act (TSCA)** One or more components of the mixture are not on the TSCA 8(b) inventory

or are designated "inactive".

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Contains component(s) regulated under the Safe Drinking Water Act.

(SDWA)

US state regulations

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

#### **International Inventories**

Country(s) or region Inventory name On inventory (yes/no)\* Canada Domestic Substances List (DSL) Yes Canada Non-Domestic Substances List (NDSL) No Toxic Substances Control Act (TSCA) Inventory United States & Puerto Rico Yes

# 16. Other information, including date of preparation or last revision

Issue date 09-20-2016 **Revision date** 01-21-2025

Version # 06

**HMIS®** ratings Health: 1

Flammability: 0 Physical hazard: 0

Material name: Re-Juv-Nal (1:64) 6/7

HIL00705RTU Version #: 06 Revision date: 01-21-2025 Issue date: 09-20-2016

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### Disclaimer

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**Revision information** 

Exposure controls/personal protection: Eye/face protection

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