# The Cleaning Resource

# SAFETY DATA SHEET

## 1. Identification

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

Other means of identification

SDS number 543N-29A **Product code** HIL00610RTU 1839-169-1658 **Product registration** 

number

Disinfectant/Cleaner Recommended use **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

(816) 233-1321 (Ext. 8285) Telephone number

(816) 383-8485 Fax

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

Label elements

None. Hazard symbol Signal word None.

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

**Precautionary statement** 

Prevention Observe good industrial hygiene practices.

Wash hands after handling. Response

Store away from incompatible materials. Storage

**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.

## 3. Composition/information on ingredients

**Mixtures** 

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

HIL00610RTU Version #: 04 Revision date: 09-27-2019 Issue date: 09-20-2016

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

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 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.

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

Ingestion Rinse mouth. Get medical attention if symptoms occur. Direct contact with eyes may cause temporary irritation. Most important

symptoms/effects, acute and

delayed

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

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

protect themselves.

### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment

and precautions for firefighters

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

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.

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.

**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, including any incompatibilities Store in original tightly closed container.

#### 8. Exposure controls/personal protection

**Biological limit values** 

Appropriate engineering controls

No biological exposure limits noted for the ingredient(s).

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

Avoid contact with eyes. Where splashing of concentrate is a concern, use protective glasses with side shield

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

Skin protection

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

Other Not normally needed.

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

207 °F (97.22 °C)

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 6.50 - 7.50

Melting point/freezing point Not applicable / Not available

Initial boiling point and boiling

range

Flash point Not available.

Evaporation rate < 1 Ethyl ether = 1

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits
Explosive limit - lower (%)
Explosive limit - upper (%)
Not applicable
Vapor pressure
Vapor density
Relative density
1 at 77°F

Solubility(ies)

Solubility (water) 100 % Complete
Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

Density8.33 lb/galExplosive propertiesNot explosive.Oxidizing propertiesNot oxidizing.Percent volatile> 98 %VOC0.01 %

## 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.

Material name: Re-Juv-Nal (1:64)
HIL00610RTU Version #: 04 Revision date: 09-27-2019 Issue date: 09-20-2016

## 11. Toxicological information

#### Information on likely routes of exposure

**Inhalation** No adverse effects due to inhalation are expected.

**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** 

Components Species Test Results

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

Acute Dermal

LD50 Rabbit 2730 mg/kg

\* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary 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** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

**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.

ProductSpeciesTest ResultsRe-Juv-Nal (1:64)AquaticCrustaceaEC50Daphnia8224.377 mg/l, 48 hours estimatedFishLC50Fish3834.9241 mg/l, 96 hours estimated

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

Components Species Test Results

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

Aquatic

Fish LC50 White sturgeon (Acipenser 0.001 - 0.01 mg/l, 96 hours

transmontanus)

\* Estimates for product may be based on additional component data not shown.

Persistence and degradability

No data is available on the degradability of this product.

**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

Not established.

the IBC Code

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.

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 1910.1001-1052)

Not regulated.

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.

Material name: Re-Juv-Nal (1:64)
HIL00610RTU Version #: 04 Revision date: 09-27-2019 Issue date: 09-20-2016

SDS US

Safe Drinking Water Act

(SDWA)

Not regulated.

**US** state regulations

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.

#### **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.

#### International Inventories

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

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

09-20-2016 Issue date 09-27-2019 **Revision date** 

Version # Λ4 Health: 1 **HMIS®** ratings

Flammability: 0 Physical hazard: 0

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the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently

available.

Identification: Recommended restrictions **Revision information** 

Exposure controls/personal protection: Eye/face protection

HazReg Data: International Inventories

<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).