



Revision: 14.01 **SAFETY DATA SHEET** Date: 24 October 2024

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS

Quick Decon Complete Powder mix for Actinides and Transition Metals

Cat # 77102 -3

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Quick Decon Complete Powder mix for Actinides and Transition Metals Cat # 77102 -3 Product identifier

GHS Product Identifier Quick Decon Complete Powder mix for Actinides and Transition Metals Cat # 77102 -3

Chemical Name Not Applicable

Trade name Quick Decon Complete Powder mix for Actinides and Transition Metals

Cat # 77102 -3

Relevant identified uses of the substance or mixture and uses advised against

Identified use(s) – Decontamination of selected radioisotopes.

Uses advised against - Consult with the manufacturer concerning all uses. Details of the supplier of the safety data sheet

Company Radiation Decontamination Solutions, LLC

Address P.O. Box 2482, Oldsmar, FL 34677

RT Technologies Inc.

Telephone (813) 854-5100

E-Mail (competent person) info@raddecon.com Decontamination Solutions, LLC.

Emergency telephone number – (800) 222-1222 (US Poison Control)

SECTION 2: HAZARDS IDENTIFICATION

Classifications of the substance or mixture

OSHA Hazardous Communication Standard (USA) and UN GHS classification

Non-hazardous according to the OSHA HCS (29CFR1910.1200) and GHS classifications.

Label elements

GHS Product Identifier			
Hazard	None	Signal Word(s)	None
pictogram(s			
Hazard	None		
statement(s)			
Precautionary	None		
statement(s)			
Hazard statement(s)	None		



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WHMIS Classifications (Canada)

Classifications None – Not hazardous according the WHMIS regulations

Hazard None

Statement(s)

Precautionary None

statement(s)

EU Directives 1272/2008/EC and 1907/2006/EC

Non-hazardous according to EU Directives 1272/2008/EC and 1907/2006/EC

Label element:

CLP Product Identifier

Hazard None Signal None

Pictogram(s) word(s)

Hazard statement(s) None Precautionary None

statement(s)

EU Directives 1999/45/EEC and 67/548/EEC

Non-hazardous according to EU Directives 1999/45/EEC and 67/548/EEC

Label elements:

Risk Symbols None Risk Phrases None Safety Phrases None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Product contains no hazardous ingredients in reportable quantities under the following jurisdictions: USA, Canada, European Union, Australia, New Zealand, Japan, Korea, South Africa, or the UN.

Additional Information - Non-Hazardous ingredients are confidential and proprietary and make up the totality of the product. Product Contents include mixed parabens, and proprietary non-hazardous active ingredients. It is $\sim 98\%$ active ingredients.



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SECTION 4: FIRST AID MEASURES

Description of first aid measures

Note: First aid recommendations are predicated on exposure to product that has not been previously exposed to radioactive isotopes. For ANY EXPOSURE to product that has been used to decontaminate surfaces with measured or suspected radioactivity, medical attention should be sought.

Inhalation Remove the patient from exposure. Keep the patient at rest and give

oxygen if breathing is difficult. If symptoms develop (unusual

occurrence), obtain medical attention.

Skin Contact Simply wash affected areas with soap and water. In the highly unusual

event of persistent irritation, seek medical assistance.

Eye Contact Remove any contact lenses. Irrigate with eyewash solution or clean

water, holding the eyelids apart, for at least 15 minutes. Obtain medical

attention for persistent irritation.

Ingestion SEEK EMERGENCY MEDICAL ASSISTANCE AND SHOW THIS MSDS TO

PHYSICIAN. Do not induce vomiting. Make the victim drink plenty of water. The product contains cyano group chemical; Ingestion of large

quantities may lead to cyanide poisoning.

Most important

symptoms and

effects, both acute and

delayed

Acute: May cause irritation to stomach and esophagus upon ingestion. Serious ingestion may lead to cyanide poisoning, including neurological Deficits, headache, vertigo, weakness, tremors, seizures, and shortness

of breath. Skin color may be cherry-red.

May cause mild to moderate eye irritation.

Indication of the immediate medical

attention and special treatment needed

Delayed and chronic effects: Similar to acute effects. Case management

Should be based on laboratory results. Hydroxycyanocobalamin is

specific as an antidote.



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SECTION 5: FIRE-FIGHTING MEASURES

Data Related to Fire

Flash Point: Non-Flammable Autoignition Temperature: Non-Flammable

Explosive / Flammable Limits (%v/v) Lower: NA Upper: NA

Sensitivity to Mechanical Impact: None known. Sensitivity to Static Discharge: None

Extinguishing media

Advice for fire-fighters

Suitable Extinguishing Media Choose media for surrounding fire.

Unsuitable Extinguishing Media None known

Special Hazards A self-contained breathing apparatus and suitable protective clothing

> should be worn in fire conditions. For fires in which used solution is involved, radiological monitoring is essential. Launder contaminated

protective devices.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective

equipment and emergency

the removal of spillages. Evacuate if necessary. If the used solution is procedures spilled, expert assistance may be needed due to release of radiation. Radiological monitoring of spill site is essential where used solution has

Environmental Precautions been spilled. Product poses no chemical hazards to the environment.

> Absorb material in an inert absorbent and transfer to a lidded container for disposal or recovery. For solutions that may have radioisotopes, storage

Ensure full personal protection (including respiratory protection) during

Methods and material for containment and cleaning up containers must be appropriately marked and type-accepted for the purpose of storing radiological waste; consult with manufacturer or

authorities to ensure compliance. Reference to other sections See Also Section 7, 8, 13. **Additional Information**

None

SECTION 7: HANDLING AND STORAGE

Precautions for safe Keep away from strong bases, acids, and water-reactive materials. Use only

in accordance with manufacturer instructions. Prolonged contact with skin

and/or eyes is not recommended.

Conditions for safe storage, Store in a tightly closed container in accordance with manufacturer

including any suggestions. Incompatible with strong bases and water-reactive materials.

incompatibilities

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handling

Storage Temperature Storage temperature should stay between 5-60°C (41-140°F).

Storage Life Ambient. Extreme temperatures are not recommended.

Incompatible materials Acids – may liberate toxic and/or noxious fumes.



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

The product contains no hazardous ingredients in reportable quantities under the following jurisdictions: USA, Canada, European Union, Australia, New Zealand, Japan, Korea, South Africa, or the UN. No exposure limits are available for product.

OELs are not available for non-listed components.

Personal protection equipment

	Respirators	Not normally required for handling of solutions in situations where		
6	Respirators	exposure to radiation is not a possibility. For exposures where radiation is		
		involved, seek guidance from manufacturer or authorities.		
	Eye	Safety spectacles suggested at all times. This may be combined with a face		
	Protection	shield or combination eye protection / respiratory protection as required by		
		each individual exposure scenario to radiation during usage.		
TO.	Gloves	Wear protective gloves during use. Gloves should be chosen to fit each		
U		individual situation of use; consult with manufacturer.		
	Body	Wear suitable protective clothing and gloves during use. Body protection		
	protection	should be individualized to the situation of usage; consult with		
、村、		manufacturer and/or regulatory authorities for appropriate protective		
DD		equipment.		
	Engineering	Consult with regulatory authorities and/or manufacturer; each situation		
	Controls	should be carefully evaluated in order to properly select engineering		
		controls.		
	Other	Remove contaminated, saturated clothing immediately. Contaminated		
		clothing and equipment should be decontaminated or discarded as		
		hazardous waste.		



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Solid Color white, colored speckles
Odor None Odor Threshold (ppm) Not available
Melting Point (°C) / Freezing N/A Boiling point/boiling range (°C):

Not available

Flash Point (°C) None Explosive limit ranges Not available Auto Ignition Not available Decomposition Temperature (°C) Not

available

Explosive properties
Flammability (solid, gas)
Evaporation rate

Vapor Density (Air=1)

Not available

Not available

Oxidizing properties

Not available

PH (Value) <5.0 (estimate – not corrosive)

Vapor Pressure (mm Hg) Not available

Density (g/ml) 1.0 ± 0.1

Solubility (Water)

Partition Coefficient

Soluble

Soluble

Solublity (Other)

Not Available

(n-Octanol/water) Not available Viscosity (mPa.s) Not Available

Other information

Point (°C)

Temperature (°C)

Volatile Organic Chemical (VOC) Content – < 10%

SECTION 10: STABILITY AND REACTIVITY

Reactivity May react with incompatible materials. **Chemical stability** Stable under normal conditions.

water-reactive materials.

Conditions to avoidAvoid contact with heat and ignition sources.

Incompatible materials
Strong acids, bases, Water-Reactive Materials

Hazardous Decomposition Product(s) Carbon monoxide, Carbon dioxide, Cyano Compounds

SECTION 11: TOXICOLOGICAL INFORMATION

SUBSTANCE	CAS No.	LD ₅₀ (Oral, Rat)	LC ₅₀ (Inhalation,	LD50
SUBSTAINCE			Rat)	(Dermal, Rat)

Product contains no hazardous ingredients in reportable quantities under the following jurisdictions: USA, Canada, European Union, Australia, New Zealand, Japan, Korea, South Africa, or the UN. No exposure limits are available for product.



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Information on toxicological effects

Note: Toxicological effects described below are based solely on product that has not been exposed to radioactive isotopes. Where exposures to used and/or radiation-contaminated products have occurred, toxic effects of radiation sickness/poisoning may include nausea, vomiting, diarrhea, headache, fever, myalgia, fatigue, hypotension, leukopenia, generalized weakness, CNS symptoms, and coma progressing to death. Cutaneous Radiation Exposures may involve itching and redness that may progress to blistering and alopecia in the affected areas; necrosis may occur in severe exposures. The symptoms of radiation illnesses are dependent on the type of radiation, as well as the length and totality of exposures. The data in this section must not be used as a substitute for medical assistance where exposures to radiation have occurred.

Acute toxicity Ingestion may cause irritation of the gastrointestinal tract.

Serious cases may result in cyanide poisoning; see Section 4.

Irritation May be slightly irritating to skin, May be irritating to eyes.

Corrosivity Unlikely; prolonged eye exposure could cause mild ulcerations of corneas.

Repeated dose toxicity Expected to be similar to single exposures.

Carcinogenicity Not expected.

Mutagenicity No data.

Toxicity for reproduction No data.

Other information None

SECTION 12: ECOLOGICAL INFORMATION

Toxicity Unused product is not harmful to aquatic environments in small quantities.

Persistence and degradabilityBiodegradable. Not persistent.Bioaccumulative potentialBiodegradable. Not persistent.

Mobility in soil The product has high mobility in soil.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods Disposal should be in accordance with local, state or national

legislation. Consult with authorities, especially when the disposal of

radiation- contaminated solutions is involved

Additional Information None



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SECTION 14: TRANSPORT INFORMATION

Land transport (Within USA) (c)(d)

Land transport (Within Canada)

UN number None UN number None

Proper Shipping Name - Not classified as Proper Shipping Name - Not classified as dangerous

dangerous for transport. DOT exemption for transport. Special provision 1.36.

49CFR173.150e.

Transport hazard class(es) None Transport hazard class(es) None

Packing Group None Packing Group None Hazard label(s) None Hazard label(s) None

Environmental hazards None Environmental hazards None

Special precautions for user None Special precautions for user None Sea transport (IMDG) (c)(d)

Air transport (ICAO/IATA) (c) (d)

UN number None UN number None

Proper Shipping Name - Not classified as Proper Shipping Name - Not classified as dangerous dangerous for transport. IMDG Special Provision for transport. Special Provision/Exemption A58.

144.

Transport hazard class(es) None Transport hazard class(es) None

Packing Group None Packing Group None

Marine Pollutant None Environmental hazards None

Special precautions for user None Special precautions for user None

(c) - Consult with transport provider.

(d)— Check relevant regulations for Special Provisions.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: REGULATORY INFORMATION

National regulations

USA

TSCA (Toxic Substance Control Act)

All chemicals listed.

SARA 311/312 - Hazard Categories None

SARA 302 - Extremely Hazardous Substances Listed - None SARA 313 - Toxic Chemicals Listed - None

CERCLA (Comprehensive Environmental

Response Compensation and Liability Act)

CAA (Clean Air Act 1990)

CWA (Clean Water Act)

State Right to Know Lists

Listed – None

Listed – None

Proposition 65 (California) None



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Canada

WHMIS Classification None. Canada (DSL/NDSL) Listed. - DSL

Canada Ingredient Disclosure List (CIDL) Canadian users should contact manufacturer.

Chemical Safety Assessment Contact with strong acids may result in release of toxic and/or noxious fumes.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16. **LEGEND**

ACGIH	American Conference of Governmental Industrial Hygienists	NA	not applicable, not available
AICS	Australian Inventory of Chemical Substances	NIOSH	National Institute for Occupational Safety and Health
ANSI	American National Standards Institute	ND	not determined
atm	atmosphere (pressure unit)	NFPA	National Fire Prevention Association
BOD	biological oxygen demand	NTP	National Toxicology Program
CAS	Chemical Abstracts Service	OC	open cup
CC	closed cup	OSHA	Occupational Safety and Health Administration
CDTA	Chemical Drug and Trafficking Act	Part	partition
COC	Cleveland Open Cup	PEL	permissible exposure limits
COD	chemical oxygen demand	ppb	parts per billion
coeff.	coefficient	PPE	personal protective equipment
CFR	Code of Federal Regulations	ppm	parts per million
CPR	cardio-pulmonary resuscitation	psi	pounds per square inch
DEA	Drug Enforcement Agency	RCRA	Resource Conservation and Recovery Act
DOT	Department of Transportation	RQ	Reportable quantity
DSCL	Dangerous Substances Classification and Labeling	RTK	Right to Know
EEC	European Economic Community	SARA	Superfund Amendments and Reauthorization Act
FDA	Food and Drug Administration	STEL	short-term exposure limit
HMIS	Hazardous Materials Information System	SUSDP	Standard for the Uniform Scheduling of Drugs and Poisons (Australia)
IARC	International Agency for Research on Cancer	TCC	Tagliabue Closed Cup
IDLH	immediate danger to life or health	TDG	Transportation of Dangerous Goods
kg	kilogram	TPQ	threshold planning quantity
L	liter	TQ	threshold quantity

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LC50	median lethal concentration	TSCA	Toxic Substances Control Act
LD50	median lethal dose	TWA	time-weighted average
LEL	lower explosive limit	UEL	upper explosive limit
mg	milligram	WES	Workplace Exposure Standard (New
			Zealand)
mL	milliliter	WHMIS	Workplace Hazardous Material
			Information System

References: RTECS, CAS Registry, EINECS/ESIS, Casarett & Doull's Toxicology, Goldfranks's

Toxicological Emergencies, Manufacturer Information

Risk Phrases and Safety Phrases

None

Hazard statement(s) and Precautionary statement(s)

None

Additional Information:

None

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