

Material Safety Data Sheet  
dLUTE SEQ

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Section 1 - Chemical Product and Company Identification  
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MSDS Name: dLUTE SEQ Sequencing Formulation  
Catalog Numbers: NUC-20-1, NUC-20-25, NUC-20-T  
Synonyms: dLUTE  
Company Identification:  
Nucleics Pty Ltd  
12 Mill St  
Bendigo VIC 3550  
Australia  
For information call: +61 3 5444 7361  
For emergencies call: +61 3 5444 7361

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Section 2 - Composition / Information on Ingredients  
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NAME	CAS RN	%
Mineral oils >60	8042-47-5	
Performance additives (nonhazardous proprietary)	1-10	

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Section 3 - Hazards Identification  
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EMERGENCY OVERVIEW

Appearance: white viscous liquid.  
Caution! May cause eye and skin irritation. May cause respiratory and digestive tract irritation.  
Target Organs: None known.

Potential Health Effects

Eye: May cause mild eye irritation.  
Skin: Prolonged and/or repeated contact may cause irritation and/or dermatitis.  
Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. Causes gastrointestinal irritation with nausea, vomiting and diarrhea. Aspiration of material into the lungs may cause chemical pneumonitis, which may be fatal.  
Inhalation: May cause respiratory tract irritation. May cause lung damage.  
Chronic: Prolonged inhalation may cause respiratory tract inflammation and lung damage. Prolonged or repeated skin contact may cause dermatitis. Ingestion of large amounts will produce laxative effects.

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Section 4 - First Aid Measures  
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Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.  
Skin: Get medical aid immediately. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.  
Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.  
Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.  
Notes to Physician: Treat symptomatically and supportively.

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Section 5 - Fire Fighting Measures  
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General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.  
Extinguishing Media: Use water fog, dry chemical, carbon dioxide, or regular foam.  
Flash Point: > 170 deg C (> 338.00 deg F)  
Autoignition Temperature: Not available.  
Explosion Limits, Lower: Not available.  
Upper: Not available.  
NFPA Rating: (estimated) Health: 1; Flammability: 1; Instability: 0

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Section 6 - Accidental Release Measures  
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General Information: Use proper personal protective equipment as indicated in Section 8.  
Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section.

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Section 7 - Handling and Storage  
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Handling: Wash thoroughly after handling. Use only in a well-ventilated area. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.  
Storage: Store at 4 deg C. Store in a tightly closed container.

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Section 8 - Exposure Controls, Personal Protection  
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Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Mineral Oil	none listed	none listed	none listed

OSHA Vacated PELs: Mineral Oil: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

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Section 9 - Physical and Chemical Properties  
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Physical State: Viscous liquid

Appearance: white

Odor: Not available.

pH: Not available.

Vapor Pressure: Not available.

Vapor Density: Not available.

Evaporation Rate: Not available.

Viscosity: >1000cSt @ 20 deg C

Boiling Point: Not available.

Freezing/Melting Point: Not available.

Decomposition Temperature: Not available.

Solubility: Insoluble.

Specific Gravity/Density: 0.82g/cm3

Molecular Formula: Not available.

Molecular Weight: Not available.

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Section 10 - Stability and Reactivity  
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Chemical Stability: Stable.

Conditions to Avoid: Incompatible materials.

Incompatibilities with Other Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Has not been reported

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Section 11 - Toxicological Information  
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RTECS#:

CAS# 8042-47-5: PY8047000

LD50/LC50:

Not available.

Carcinogenicity:

CAS# 8042-47-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No data available.

Teratogenicity: No data available.  
Reproductive Effects: No data available.  
Mutagenicity: No data available.  
Neurotoxicity: No data available.  
Other Studies:

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Section 12 - Ecological Information  
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No information available.

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Section 13 - Disposal Considerations  
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Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.  
RCRA P-Series: None listed.  
RCRA U-Series: None listed.

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Section 14 - Transport Information  
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US DOT Canada TDG  
Shipping Name: Not regulated as a hazardous material  
No information available.  
Hazard Class:  
UN Number:  
Packing Group:

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Section 15 - Regulatory Information  
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US FEDERAL

TSCA

CAS# 8042-47-5 is listed on the TSCA inventory.  
Health & Safety Reporting List  
None of the chemicals are on the Health & Safety Reporting List.  
Chemical Test Rules  
None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 8042-47-5: immediate.

Section 313 No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.  
This material does not contain any Class 1 Ozone depletors.  
This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.  
None of the chemicals in this product are listed as Priority Pollutants under the CWA.  
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 8042-47-5 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

Not available.

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 8042-47-5: No information available.

Canada - DSL/NDSL

CAS# 8042-47-5 is listed on Canada's DSL List.

Canada - WHMIS

WHMIS: Not available.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.  
Canadian Ingredient Disclosure List

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Section 16 - Additional Information  
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MSDS Creation Date: 9/5/02

Revision #1 Date: 18/1/06

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