

I. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: Orion 900003
Double Junction Outer Filling Solution

PRODUCT USE: Reagent

MANUFACTURER/SUPPLIER: Thermo Fisher Scientific Inc.
166 Cummings Center
Beverly, MA 01915 USA
Phone: 978-232-6000
E-mail: info.water@thermo.com

CHEMTREC® 24 hr Emergency: US 800-424-9300; International 703-527-3887

II. HAZARDS IDENTIFICATION

NFPA RATINGS: HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

TARGET ORGANS: Skin and eyes.

ACUTE TOXICITY: Large amounts taken internally may be fatal or cause dizziness, cramps, convulsions, vomiting, weakness, collapse.

CHRONIC TOXICITY: Can cause anemia, nephritis, and methemoglobinemia.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Kidney or heart problems.

III. COMPOSITION/INFORMATION ON INGREDIENTS

		%	LD ₅₀ mg/kg
COMPONENT	Potassium Nitrate (KNO ₃)		
CAS NO.	7757-79-1	10	3,750 (ORL-RAT)
COMPONENT	Triton X-100 (C ₃₂ H ₅₈ O ₁₁)		
CAS NO.	9002-93-1	<0.01	1,800 (ORL-RAT)
COMPONENT	Deionized Water (H ₂ O)		
CAS NO.	7732-18-5	90	190,000 (IPR-MUS)

IV. FIRST AID MEASURES

EYE AND SKIN CONTACT: Wash off with large amounts of water for 15 minutes.

INHALATION: Not hazardous.

INGESTION: Induce vomiting and consult physician.

V. FIRE FIGHTING MEASURES

FLASH POINT: NA AUTOIGNITION POINT: NA
FLAMMABILITY LIMITS: UPPER: NA LOWER: NA
EXTINGUISHING MEDIA: Dry chemical, water, foam, or CO₂.

VI. ACCIDENTAL RELEASE MEASURES

Clean up and set aside for waste disposal.

VII. HANDLING AND STORAGE

Always wear eye protection and gloves when working with this product.
Avoid contact with skin and eyes.
Keep sealed and store at room temperature.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA & ACGIH THRESHOLD LIMIT: None listed.

PROTECTIVE EQUIPMENT: Safety glasses, lab coat and gloves.

IX. PHYSICAL AND CHEMICAL PROPERTIES

STATE: Clear liquid ODOR THRESHOLD: None
SENSITIVITY TO MECHANICAL IMPACT: None
SENSITIVITY TO STATIC DISCHARGE: None
COEFFICIENT OF OIL/WATER DISTRIBUTION: None
SOLUBILITY IN WATER: Soluble pH: 5.5 – 7.5
SPECIFIC GRAVITY: 1.06
BOILING POINT: 100°C MELTING POINT: Not determined
VAPOR DENSITY: Not determined

X. STABILITY AND REACTIVITY

Product is stable. Hazardous polymerization will not occur.
Incompatibles: Reducing agents, organic materials, metals, strong acids.
Hazardous decomposition product: Oxides of nitrogen.

XI. TOXICOLOGICAL INFORMATION

Route of Exposure: Dizziness, nausea, weakness.
Teratogen Status: None
Mutagen Status: None
Reproductive Toxicity: None
Carcinogen Status: None

XII. ECOLOGICAL INFORMATION

None available.

XIII. DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with Federal, State and Local Regulations.

XIV. TRANSPORT INFORMATION

Product is not hazardous for transport.


XV. REGULATORY INFORMATION

EUROPEAN INFORMATION:

S24/25 Avoid contact with skin and eyes.

US/ CANADA INFORMATION:

SARA/Title III: Potassium nitrate is listed in Table 172, 101 of Title 49CFR.
Cal. Proposition 65: Ingredients not listed.
US TSCA Inventory: Ingredients are listed.

CPR Class: D2B 

TDG Class: None.

MSDS discloses elements required by the CPR.

XVI. OTHER INFORMATION

THE ABOVE INFORMATION IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO US. ALL PRODUCTS ARE OFFERED IN ACCORDANCE WITH THE MANUFACTURER'S CURRENT PRODUCTION SPECIFICATIONS AND ARE INTENDED SOLELY FOR USE IN ANALYTICAL TESTING. THE MANUFACTURER SHALL IN NO EVENT BE LIABLE FOR ANY INJURY, LOSS OR DAMAGE RESULTING FROM THE HANDLING, USE OR MISUSE OF THESE PRODUCTS.

MSDS prepared by Environmental, Health and Safety.