

**1 Identification****Product identifier****Trade name:** 255 A Salt**Application of the substance / the mixture** Industrial use only**Uses advised against** Not intended for food and drug use.**Details of the supplier of the safety data sheet****Manufacturer/Supplier(s):**Kidde Aerospace and Defense (COLLINS AEROSPACE)  
4200 Airport Dr NW  
Wilson, NC 27896  
(252) 237-7004Rockwell Collins, Inc. (COLLINS AEROSPACE)  
2464 River Road  
Decorah, IA 52101  
(319) 295-9800**Emergency telephone number:**  
CHEMTREC (inside US/Canada):  
(800)424-9300Chemtrec emergency number (Outside US):  
1-703-741-5970**Information department:** EH&S Compliance | Central EH&S**2 Hazard(s) identification****Classification of the substance or mixture**

GHS03

Oxidizing Solids 3

H272 May intensify fire; oxidizer.



GHS07

Acute Toxicity - Oral 4

H302 Harmful if swallowed.

Skin Irritation 2

H315 Causes skin irritation.

Eye Irritation 2A

H319 Causes serious eye irritation.

Specific Target Organ Toxicity - Single Exposure 3

H335 May cause respiratory irritation.

**Label elements****GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

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Printing date 11/08/2022

Reviewed on 04/07/2022

**Trade name: 255 A Salt****Hazard pictograms**

GHS03 GHS07

**Signal word** Warning**Hazard-determining components of labeling:**

lithium nitrate  
Sodium nitrate  
potassium nitrate

**Hazard statements**

H272 May intensify fire; oxidizer.  
H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

**Precautionary statements**

P210 Keep away from heat.  
P220 Keep/Store away from clothing/combustible materials.  
P221 Take any precaution to avoid mixing with combustibles.  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray  
P264 Wash thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.  
P330 Rinse mouth.  
P302+P352 If on skin: Wash with plenty of water.  
P304+P312 IF INHALED: Call Product Safety Department if you feel unwell.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P370+P378 In case of fire: Use water to extinguish.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Other hazards****Results of PBT and vPvB assessment**

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

**PBT:** Not applicable.

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vPvB: Not applicable.

**3 Composition/information on ingredients****Chemical characterization:****Hazardous components:**

CAS: 7631-99-4	Sodium nitrate	10-60%
	Oxidizing Solids 3, H272 Skin Irritation 2, H315; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335	
CAS: 7757-79-1	potassium nitrate	10-60%
	Oxidizing Solids 3, H272 Skin Irritation 2, H315; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335	
CAS: 7790-69-4	lithium nitrate	10-60%
	Oxidizing Solids 3, H272 Acute Toxicity - Oral 4, H302; Skin Irritation 2, H315; Eye Irritation 2A, H319	

**Additional information:**

In accordance with paragraph (i) of §1910.1200, the exact percentage (concentration) of composition of the mixture ingredients has been withheld as a trade secret.

**4 First-aid measures****Description of first aid measures****General information:**

First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

**After inhalation:**

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a poison center/doctor if you feel unwell.

**After skin contact:**

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Take off contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice/attention.

**After eye contact:**

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

**After swallowing:** Do not induce vomiting; immediately call for medical help.

**Most important symptoms and effects, both acute and delayed**

Any additional important symptoms and effects are described in Section 11: Toxicological Information

**Indication of any immediate medical attention and special treatment needed** Treat symptomatically.

**5 Fire-fighting measures****Extinguishing media**

**Suitable extinguishing agents:** In case of fire, use: water, water mist or wet chemicals.

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Printing date 11/08/2022

Reviewed on 04/07/2022

**Trade name: 255 A Salt****For safety reasons unsuitable extinguishing agents:** Carbon dioxide**Special hazards arising from the substance or mixture**

Oxidizing properties  
Nitrogen oxides (NOx)  
Potassium/sodium/lithium oxides  
Non combustible, but may intensify a fire.

**Advice for firefighters**

Firefighters use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**Additional information**

Move undamaged containers from immediate hazard area if it can be done safely.  
If possible, prevent run-off water from entering storm drains, bodies of water, or other environmental areas.

**6 Accidental release measures****Personal precautions, protective equipment and emergency procedures:**

Ensure adequate ventilation.  
Do not breathe dust/fume/gas/mist/vapours/spray.  
Avoid formation of dust.  
Evacuate personnel to safe areas.  
Only trained personnel should re-enter the area.  
Follow safe handling advice and personal protective equipment recommendations.

**Environmental precautions:** Avoid release to the environment.**Methods and material for containment and cleaning up:** Sweep up and shovel into suitable containers for proper disposal.**Reference to other sections**

See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**7 Handling and storage****Precautions for safe handling:**

Ensure adequate ventilation.  
Prevent formation of dust.  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Wash thoroughly after handling.  
Avoid formation of dust.

**Information about protection against explosions and fires:**

Use explosion-proof apparatus / fittings and spark-proof tools.  
Ground/bond container and receiving equipment.

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Keep away from combustible materials.

**Conditions for safe storage, including any incompatibilities**

Move container of this product carefully, with the appropriate container-handling equipment. Store container in cool, dry locations, away from direct sunlight, or sources of intense heat. Storage areas should be made of fire-resistant materials. Keep containers away from incompatible chemicals. Keep containers tightly closed and in dry, well-ventilated places.

**Information about storage in one common storage facility:**

Store away from incompatible materials. See Section 10.

Store locked up.

**Further information about storage conditions:**

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

This product is hygroscopic.

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Specific end use(s)** No relevant information available.

**8 Exposure controls/personal protection****Additional information about design of technical systems:**

Technical measures and the application of adequate working methods take priority over the use of personal protection equipment.

Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Control parameters****Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Regulatory information**

Monitoring of substance concentrations in air at the workplace may be necessary to ensure compliance with official exposure limit values and adequacy of exposure controls. For some substances biological monitoring may also be appropriate. For further information contact the supplier or the competent authorities.

**Additional information:** The lists that were valid during the creation were used as basis.

**Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

Ensure that eye flushing systems and safety showers are located close to the working place.

Monitoring of the workplace atmosphere may be required to ensure the effectiveness of the engineering controls and/or the necessity to utilize Personal Protection Equipment (PPE).

**Breathing equipment:**

Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use an approved respirator where indicated by your risk assessment process.

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**Trade name: 255 A Salt**

Particulate filter

**Protection of hands:****Material of gloves**

Neoprene gloves

Natural rubber, NR

Butyl rubber, BR

Nitrile rubber, NBR

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**

Safety glasses with side shields

If splash potential exists, wear full face shield or chemical goggles.

**Body protection:** Use protective clothing which is chemical resistant to this material.**9 Physical and chemical properties****Information on basic physical and chemical properties****General Information****Appearance:****Form:** Crystalline**Color:** Whitish**Odor:** Odorless**Odor threshold:** Not determined.**pH-value:** No data available.**Change in condition****Melting point/Melting range:** 250-260 °C (482-500 °F)**Boiling point/Boiling range:** Undetermined.**Flash point:** Not applicable.**Flammability (solid, gaseous):** Not determined.**Decomposition temperature:** Not determined.**Auto igniting:** Product is not selfigniting.**Danger of explosion:** Product does not present an explosion hazard.**Explosion limits:****Lower:** Not determined.**Upper:** Not determined.**Oxidizing properties:** Oxidising.**Vapor pressure:** Not applicable.**Density at 20 °C (68 °F):** 1.1258-4.4642 g/cm<sup>3</sup> (9.3948-37.2537 lbs/gal)**Relative density:** Not determined.**Vapour density:** Not applicable.

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<b>Evaporation rate:</b>	Not applicable.
<b>Solubility in / Miscibility with Water:</b>	Soluble.
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.
<b>Other information</b>	No relevant information available.

**10 Stability and reactivity****Reactivity** No relevant information available.**Chemical stability** Stable under normal conditions.**Possibility of hazardous reactions** Reacts exothermically with combustible materials: (increased) risk of fire.**Conditions to avoid**

Incompatible materials, excessive heat and fire.

Sparks

Avoid combustible materials.

**Incompatible materials:**

Strong oxidizers, strong acids, acid chlorides, acid anhydrides, chloroformates, organic materials, cyanides, thiocyanates, or strong reducing agents.

**Hazardous decomposition products:** metal oxides, nitrogen oxides**11 Toxicological information****Information on toxicological effects**

Acute toxicity (oral): Harmful if swallowed.

Acute toxicity (dermal): Not classified

Acute toxicity (inhalation): Not classified

**Acute toxicity:****LD/LC50 values:****CAS: 7631-99-4 Sodium nitrate**

Oral	LD50	3,430 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rat)

**CAS: 7757-79-1 potassium nitrate**

Oral	LD50	3,750 mg/kg (rat)
Inhalative	LC50 (4h)	>0.527 mg/L (M.A.C.) (rat)

**CAS: 7790-69-4 lithium nitrate**

Oral	LD50	1.426 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50 (4h)	>5.93 mg/L (rat)

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Printing date 11/08/2022

Reviewed on 04/07/2022

**Trade name: 255 A Salt****Skin Corrosion/Irritation:** Causes skin irritation.**Serious eye damage/irritation:** Causes serious eye irritation.**Sensitization:** Based on available data, the classification criteria are not met.**Additional toxicological information:****Carcinogenic categories****IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

**NTP (National Toxicology Program)**

None of the ingredients is listed.

**OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.**Reproductive toxicity:** Based on available data, the classification criteria are not met.**STOT-single exposure:** May cause respiratory irritation.**STOT-repeated exposure:** Based on available data, the classification criteria are not met.**Aspiration hazard:** Based on available data, the classification criteria are not met.**12 Ecological information****Toxicity****Aquatic toxicity:** No relevant information available.**Persistence and degradability** No relevant information available.**Bioaccumulative potential** No relevant information available.**Mobility in soil** No relevant information available.**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**Other adverse effects** No relevant information available.**13 Disposal considerations****Waste treatment methods****Recommendation:** Dispose of contents/container in accordance with local/regional/national/international regulations.**Uncleaned packagings:****Recommendation:** Disposal must be made according to official regulations.

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Printing date 11/08/2022

Reviewed on 04/07/2022

Trade name: **255 A Salt****14 Transport information****UN-Number**

DOT, IMDG, IATA UN1477

**UN proper shipping name**DOT Nitrates, inorganic, n.o.s.  
IMDG, IATA NITRATES, INORGANIC, N.O.S.**Transport hazard class(es)****DOT**Class 5.1 Oxidizing substances  
Label 5.1  
IMDG, IATAClass 5.1 Oxidizing substances  
Label 5.1**Packing group**

DOT, IMDG, IATA II

**Environmental hazards:** Not applicable.**Special precautions for user** Warning: Oxidizing substances**Hazard identification number (Kemler code):** 50**EMS Number:** F-A,S-Q**Stowage Category** B**Segregation Code** SG38 Stow "separated from" SGG2-ammonium compounds.  
SG49 Stow "separated from" SGG6-cyanides  
SG60 Stow "separated from" SGG16-peroxides  
SG61 Stow "separated from" SGG15-powdered metals**Transport in bulk according to Annex II of  
MARPOL73/78 and the IBC Code**

Not determined

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Printing date 11/08/2022

Reviewed on 04/07/2022

**Trade name: 255 A Salt****Transport/Additional information:****DOT****Quantity limitations**

On passenger aircraft/rail: 5 kg

On cargo aircraft only: 25 kg

**Limited quantities (LQ)**

1 kg

**IMDG****Limited quantities (LQ)**

1 kg

**Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 500 g

**UN "Model Regulation":**

UN 1477 NITRATES, INORGANIC, N.O.S., 5.1, II

**15 Regulatory information****TSCA (Toxic Substances Control Act):**

All ingredients are on the TSCA Inventory.

CAS: 7631-99-4	Sodium nitrate
CAS: 7757-79-1	potassium nitrate
CAS: 7790-69-4	lithium nitrate

**Hazardous Air Pollutants**

None of the ingredients is listed.

**Proposition 65****Chemicals known to cause cancer:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**IARC (International Agency for Research on Cancer)** None of the ingredients is listed.**Chemical safety assessment****Seveso category** P8 OXIDISING LIQUIDS AND SOLIDS**Qualifying quantity (tonnes) for the application of lower-tier requirements** 50 t**Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

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Printing date 11/08/2022

Reviewed on 04/07/2022

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**Trade name: 255 A Salt**

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**16 Other information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not valid for the new made-up material.

**Training hints**

The product should only be handled by persons, who were informed sufficiently about the nature of the product and about the necessary safety precautions.

**Date of preparation / last revision** 04/07/2022 / 11/08/2022

**Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Oxidizing Solids 3: Oxidizing solids – Category 3

Acute Toxicity - Oral 4: Acute toxicity – Category 4

Skin Irritation 2: Skin corrosion/irritation – Category 2

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

**Sources** Data arise from reference works and literature.