

# Safety Data Sheet

## Section 1. Identification:

Product Name: Z-DECK FAS (PART B) 15 Product Code: 5001B



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**Emergency Contact: PERS**

**PERS Contract#: 12839**

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## Section 2. Hazard(s) Identification:

### GHS Ratings:

Flammable liquid	4	Flash point $\geq 60^{\circ}\text{C}$ ( $140^{\circ}\text{F}$ ) and $\leq 93^{\circ}\text{C}$ ( $200^{\circ}\text{F}$ )
Acute Toxicity - Oral	4	Oral $>300 \leq 2000\text{mg/kg}$
Acute Toxicity - Dermal	4	Dermal $>1000 \leq 2000\text{mg/kg}$
Acute Toxicity - Inhalation	4	Gases $>2500 \leq 20000\text{ppm}$ , Vapors $>10 \leq 20\text{mg/l}$ , Dusts&mists $>1 \leq 5\text{mg/l}$
Skin corrosion/irritation	2	Reversible adverse effects in dermal tissue, Draize score: $\geq 2.3 < 4.0$ or persistent inflammation
Serious eye damage/eye irritation	2A	Eye irritant: Subcategory 2A, Reversible in 21 days
Skin sensitization	1	Skin sensitizer
Reproductive toxicity	1A	Based on human evidence
Specific target organ toxicity single exposure	2	Presumed to be harmful to human health- Animal studies with significant toxic effects relevant to humans at generally moderate exposure (guidance) - Human evidence in exceptional cases
Specific target organ toxicity repeated exposure	2	Presumed to be harmful to human health- Animal studies with significant toxic effects relevant to humans at generally moderate exposure (guidance)- Human evidence in exceptional cases
Acute aquatic toxicity	A1	Acute toxicity $\leq 1.00\text{ mg/l}$
Chronic aquatic toxicity	C4	Acute toxicity $> 100\text{ mg/l}$ and lack of rapid degradability and log Kow $\geq 4$ unless BCF $< 500$ and unless chronic toxicity $> 1\text{ mg/l}$

### GHS Hazards

H227	Combustible liquid
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H360	May damage fertility or the unborn child
H371	May cause damage to organs
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H413	May cause long lasting harmful effects to aquatic life

### GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P235	Keep cool
P260	Do not breathe dust/fume/gas/mist/vapours/spray
P261	Avoid breathing dust/fume/gas/mist/vapours/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
P272	Contaminated work clothing should not be allowed out of the workplace
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P314	Get Medical advice/attention if you feel unwell
P321	Specific treatment (see ... on this label)
P322	Specific measures (see ... on this label)
P330	Rinse mouth
P362	Take off contaminated clothing and wash before reuse
P363	Wash contaminated clothing before reuse
P391	Collect spillage
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P302+P352	IF ON SKIN: Wash with soap and water
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P308+P313	IF exposed or concerned: Get medical advice/attention
P309+P311	IF exposed or you feel unwell: Call a POISON CENTER or doctor/physician
P332+P313	If skin irritation occurs: Get medical advice/attention
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention
P337+P313	If eye irritation persists, get medical advice/attention
P370+P378	In case of fire: Use ... for extinction
P405	Store locked up
P403+P235	Store in a well ventilated place. Keep cool
P501	Dispose of contents/container to ...

**Signal Word: Danger**



### Section 3. Composition:

Chemical Name	CAS number	Weight Concentration %
nonyl phenol	84852-15-3	80.00% - 100.00%
1,5-Pentanediamine, 2 methyl	15520-10-2	10.00% - 30.00%
Polyoxypropylenediamine	9046-10-0	1.00% - 5.00%
Tris-2,4,6-(dimethylaminomethyl)phenol	90-72-2	1.00% - 5.00%
Benzyl Alcohol	100-51-6	0.50% - 1.50%
Solvent naphtha, petroleum, heavy aromatic	64742-94-5	0.50% - 1.50%

## Section 4. First Aid Measures:

**Inhalation:** In the event of accidental inhalation evacuate person(s) from the hazard area to an area of fresh air. Allow rest in a position comfortable for breathing. Loosen tight clothing such as ties, belts, or any other obstacle that may inhibit airflow or circulation. If breathing has stopped, is irregular, or in the event of respiratory arrest provide artificial respiration or oxygen by trained personnel. Caution should be taken with mouth-to-mouth resuscitation as hazardous substance may still be present in airways. Seek medical attention. If person(s) are unconscious place them in recovery position and seek medical help immediately.

**Eye Contact:** In the event of eye exposure flush eyes immediately with clean water. Remove contact lenses if present. Lift eyelids to allow water to circulate underneath. Continue to flush eyelids for at least 10 minutes. Seek medical attention.

**Skin Contact:** In the event of skin exposure rinse immediately with soap and water. Remove any contaminated clothing or accessories. Rinse affected area for 15 minutes or until contamination has been removed entirely. Seek medical attention. Monitor for symptoms and avoid any further exposure. Contaminated clothing should be disposed of or cleaned thoroughly before reuse.

**Ingestion:** In the event of accidental ingestion immediately rinse mouth with clean water. Remove any obstacles such as dentures or retainers from mouth cavity while being careful to not block airway. If material has been swallowed allow small quantities of water to be consumed. Halt water consumption if nauseous as vomiting may be dangerous. Do not induce vomiting unless directed to by trained medical personnel. In the event of vomiting the head should be kept low to protect airway. Seek medical attention. If unconscious place person(s) in recovery position and seek medical attention immediately. Never administer anything by mouth to unconscious individual(s). Loosen tight clothing such as ties, belts or any other article that might restrict airway or constrict circulation.

## Section 5. Firefighting Measures:

Flash Point: 62 C (144 F)

LEL: N/A

UEL: N/A

**Suitable Extinguishing Media:** Dry Powder, Foam, Water Spray, Carbon Dioxide

**Hazardous Combustion Products:** Toxic fumes may be released.

**Protective Measures for Fire-Fighters:** Evacuate personnel from incident scene. Do not take any personal risk without appropriate equipment or training. If it is safe to do so remove product containers from hazard area to avoid further hazard. Utilize water to keep containers exposed to the fire cool to prevent rupture.

**Protective Equipment for Fire-Fighters:** Personnel should utilize a self-contained breathing apparatus and flame retardant clothing.

## Section 6. Accidental Release Measures:

**In the event of a spill/leak:** Ventilate spill area to reduce fume accumulation and further hazards. Avoid direct skin or eye contact. Avoid breathing fumes. Shut off potential ignition sources. Do not take any risk if not suitably trained. Unnecessary personnel should be removed from the area. Appropriate ventilation and respiration equipment should be utilized during cleanup.

**For Small Spills:** Only proceed if it is safe to do so. Stop leak if possible. Remove containers from spill area as well as any uncontaminated obstacles. Use spark-proof or explosion-proof equipment to reduce risk of combustion. Use water and mop up if product is water-soluble. If the product isn't water soluble use absorbent inert material to collect spillage. Do not dispose of contaminated water in drainage. Only dispose of waste through licensed waste disposal contractor. Alert authorities if product enters sewers or other water source.

**For Large Spills:** Only proceed if it is safe to do so. Stop leak if possible. Remove containers from spill area as well as any uncontaminated obstacles. Use spark-proof or explosion-proof equipment to reduce risk of combustion. Collect material with an absorbent non-combustible material. Collect spillage and contaminated absorbent material in containers. Caution should be taken as absorbing material may become hazardous when saturated with spilled product. Only dispose of waste through licensed waste disposal contractor. Alert authorities if product enters sewers or other water source.

## Section 7. Handling and Storage:

**Handling Precautions:** Do not handle product until all safety directions have been read and understood. Avoid unnecessary skin and respiratory exposure. Good ventilation or respiratory equipment should be utilized. Use with explosion proof or spark resistant equipment.

**Storage:** Store locked up and keep the product cool. Store material away from heat, direct flame, or electrical hazards. Keep sealed tightly in original container when not in use. Do not reuse containers.

**Hygiene Measures:** Do not eat or drink within the range of the product being applied. Wash hands thoroughly between handling and remove any contaminated clothing before entering eating areas.

## Section 8. Exposure Controls/Personal Protection:

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
nonyl phenol 84852-15-3	Not Established	Not Established	Not Established
1,5-Pentanediamine, 2 methyl 15520-10-2	Not Established	Not Established	Not Established

Polyoxypropylenediamine 9046-10-0	Not Established	Not Established	Not Established
Tris-2,4,6- (dimethylaminomethyl) phenol 90-72-2	Not Established	Not Established	Not Established
Benzyl Alcohol 100-51-6	Not Established	Not Established	Not Established
Solvent naphtha, petroleum, heavy aromatic 64742-94-5	Not Established	Not Established	Not Established

**Appropriate Engineering Controls:** Ensure good ventilation of work area. Keep fumes and dust below exposure limits.

**Environmental Exposure Controls:** Ensure emissions fall within requirements of local environmental legislation. Use necessary equipment to reduce or contain emissions if required.

**Hand Protection:** Protective gloves.

**Eye Protection:** Safety glasses/goggles.

**Body Protection:** Protective clothing should be worn. Antistatic clothing should be worn if ignition is a concern.

**Respiratory Protection:** If ventilation is inadequate use a respirator compliant with hazard ratings.

## Section 9. Physical and Chemical Properties:

<b>Boiling Range</b> 0 to 302 °C <b>Coating VOC Lbs/Gallon</b> 0.08 <b>Less Exempt</b>	<b>Specific Gravity (SG)</b> 0.935
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## Section 10. Stability and Reactivity:

**Product is non-reactive under normal conditions of storage, use, and transit.**

STABLE

**Reactive or incompatible with the following materials:**

No Data

**Product should not produce hazardous decomposition products under normal conditions of storage, use and transit.**

No Data

Hazardous polymerization will not occur.

## Section 11. Toxicological Information:

### Mixture Toxicity

Oral Toxicity LD50: 1,145mg/kg

Dermal Toxicity LD50: 2,393mg/kg

Inhalation Toxicity LC50: 8mg/L

### Component Toxicity

84852-15-3 nonyl phenol

Oral LD50: 1,300 mg/kg (Rat) Dermal LD50: 2,000 mg/kg (Rabbit)

15520-10-2 1,5-Pentanediamine, 2 methyl

Oral LD50: 1,690 mg/kg (Rat) Inhalation LC50: 3 mg/L (Rat)

9046-10-0 Polyoxypropylenediamine

Oral LD50: 242 mg/kg (Rat) Dermal LD50: 2,980 mg/kg (Rabbit) Inhalation LC50: 1 mg/L (Rat)

90-72-2 Tris-2,4,6-(dimethylaminomethyl)phenol

Oral LD50: 1,200 mg/kg (Rat) Dermal LD50: 1,280 mg/kg (Rat)

100-51-6 Benzyl Alcohol

Oral LD50: 1,230 mg/kg (Rat) Dermal LD50: 2 g/kg (Rabbit) Inhalation LC50: 4,178 mg/m3 (Rat)

64742-94-5 Solvent naphtha, petroleum, heavy aromatic  
 Oral LD50: 5,000 mg/kg (Rat) Dermal LD50: 2,000 mg/kg (Rabbit) Inhalation LC50: 590 mg/m3 (Rat)

No Data

No Data

## Effects of Overexposure

CAS Number	Description	% Weight	Carcinogen Rating
None			No Data

## Section 12. Ecological Information:

### Component Ecotoxicity

nonyl phenol	LC50 96 h Pimephales promelas 0.135 mg/L (IUCLID); LC50 96 h Lepomis macrochirus 0.1351 mg/L (EPA) EC50 48 h Daphnia magna 0.14 mg/L (IUCLID) EC50 96 h Pseudokirchneriella subcapitata 0.36 - 0.48 mg/L (EPA); EC50 72 h Pseudokirchneriella subcapitata 0.16 - 0.72 mg/L (EPA); EC50 72 h Desmodesmus subspicatus 1.3 mg/L (IUCLID)
Benzyl Alcohol	LC50 96 h Pimephales promelas 460 mg/L (EPA); LC50 96 h Lepomis macrochirus 10 mg/L (EPA) EC50 48 h water flea 23 mg/L
Solvent naphtha, petroleum, heavy aromatic	LC50 96 h Pimephales promelas 19 mg/L (IUCLID); LC50 96 h Oncorhynchus mykiss 2.34 mg/L (IUCLID); LC50 96 h Lepomis macrochirus 1740 mg/L (IUCLID); LC50 96 h Pimephales promelas 45 mg/L (IUCLID); LC50 96 h Pimephales promelas 41 mg/L (IUCLID) EC50 48 h Daphnia magna 0.95 mg/L (IUCLID)

## Section 13. Disposal Considerations:

**Disposal Methods:** Disposal of this product, containers, waste, and other contaminated materials should comply with any local environmental and waste disposal legislation within operating jurisdiction. Waste should be disposed of by licensed waste professionals. Product should never be poured into drainage.

## Section 14. Transport Information:

### DOT Special Provisions:

#### 49 CFR 172.504(f)(9):

For Class 9, a CLASS 9 placard is not required for domestic transportation, including that portion of international transportation, defined in § 171.8 of this subchapter, which occurs within the United States. However, a bulk packaging must be marked with the appropriate identification number on a CLASS 9 placard, an orange panel, or a white square-on-point display configuration as required by subpart D of this part.

#### 49 CFR 172.102(c)(1):

**8:** A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for solid materials, special provision B54 applies.

**146:** This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in § 171.8 of this subchapter, or any hazard class, as defined in part 173 of this subchapter, if it is designated as environmentally hazardous by another Competent Authority. This provision may be used for both domestic and international shipments.

**173:** For adhesives, printing inks, printing ink-related materials, paints, paint-related materials, and resin solutions which are assigned to UN3082, and do not meet the definition of another hazard class, metal or plastic packaging for substances of packing groups II and III in quantities of 5 L (1.3 gallons) or less per packaging are not required to meet the UN performance package testing when transported:

**441:** For marine pollutants transported under "UN3077, Environmentally hazardous substance, solid, n.o.s." or "UN3082, Environmentally hazardous substance, liquid, n.o.s." and for purposes of shipping paper and package marking requirements, the technical name used in association with the basic description may be a proper shipping name listed in the § 172.101 Hazardous Material Table; provided that the name chosen is not also an entry that includes "n.o.s." as a part of the name or one that has a "G" in column (1) of the table.

Agency	Proper Shipping Name	UN Number	Packing Group	Hazard Class
DOT	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Phenol, 4-nonyl-, branched)	UN3082	III	9
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Phenol, 4-nonyl-, branched)	UN3082	III	9
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Phenol, 4-nonyl-, branched)	UN3082	III	9
TDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Phenol, 4-nonyl-, branched)	UN3082	III	9

Section 15. Regulatory Information:

Country	Regulation	All Components Listed
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Section 16. Other Information:

Hazardous Material Information System (HMIS)

HEALTH

3

FLAMMABILITY

1

PHYSICAL HAZARD

0

PERSONAL PROTECTION

HMIS & NFPA Hazard Rating Legend

\* = Chronic Health Hazard

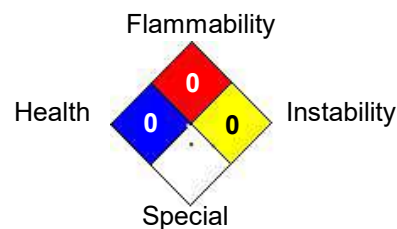
0 = INSIGNIFICANT

1 = SLIGHT

2 = MODERATE

3 = HIGH

National Fire Protection Association (NFPA)



This document is provided in good faith that the information contained within is accurate to the best of our knowledge as of the time of this documents published date.

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Reviewer Revision 1