Safety Data Sheet (SDS)

NANOSKIN NANO CUT Finishing Compound

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 **Product identifiers**

Product name	:	NANOSKIN NANO CUT Finishing Compound
Product identifier	:	NA-NCT
Product Family	:	Aqueous mixture

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

Identified Uses	:	Automotive body detailing

1.3 **Details of the supplier of the safety data sheet**

Company	:	NANOSKIN Car Care Products Total Import Solutions, Inc.

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910(OSHA HCS)

H304 MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS

H316 CAUSES MILD SKIN IRRITATION

H350 MAY CAUSE CANCER

H411 TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS

Precautionary Statements

P102: Keep out of reach of children.

P202 Do not handle until all safety precautions have been read and understood.

P273: Avoid release to the environment.

P301 IF SWALLOWED: FOLLOW INSTRUCTIONS IN FIRST AID.

P302: IF ON SKIN: FOLLOW INSTRUCTIONS IN FIRST AID.

P353: Rinse skin with water/shower.

P374: Fight fire with normal precautions from a reasonable distance.

P412: Do not expose to temperatures exceeding 50 °C/122 °F.

2.2 **GHS Label elements, including precautionary statements**

Pictogram

3. COMPOSITION/INFORMATION ON INGREDEINTS

Component	CAS number	Warnings	Concentration
Aliphatic naptha	64742-88-7	Skin irritant, environmental toxin	8-15%
CERAMIC	66402-68-4		5-15%
ALUMINUM OXIDE	1344-28-1		5-15%
TRIETHANOLAMINE	102-71-6		.1-1%
ISOPROPYL ALCOHOL	6763-0		.5-3%
OLEIC ACID	112-80-1		>2%
POLYDIMETHYLSILOXANE	63148-62-9		>10%
Glycerin	56-81-5		5-10%
Heavy Paraffin Petroleum distillates	64741-88-4		2-8%

4. FIRST AID MEASURES

First aid procedures

After inhalation:
Get victim to fresh air. Give artificial respiration or oxygen if breathing has stopped. Get prompt medical attention. Do not give fluids if victim is unconscious. If victim is consious, rinse mouth with water and contact emergency number listed in section 1.4.

After contact with skin:
Immediately wash skin with soap and water. May cause irritation. Seek medical attention if irritation or allergic reaction is present.

After contact with eyes:
Immediately flush eyes with running water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek prompt medical attention if redness or irritation occurs. Avoid agitation. Abrasives present in substance may scratch eyes. Remove contact lenses if able.

After ingestion:
Rinse mouth with water, contact poison control center or emergency number listed in section 1.4.

Advice to doctor / Treatment:
None known.

5. FIRE FIGHTING MEASURES

Flashpoint: Unknown, aqueus mixture.
Lower explosion limit: Not applicable
Upper explosion limit: Not applicable
Self ignition: Not applicable
Ignition temperature: not tested.
Hazardous combustion products: carbon oxides**,** copper oxides, tin oxides, zinc oxides, aluminum oxides
Extinguishing media: water spray jet alcohol-resistant foam carbon dioxide dry powder
Special fire fighting procedure:
Apply alcohol-type or all purpose-type foams by manufacturers' recommended techniques for large fires or water spray. Use carbon dioxide or dry chemical media for small fires. Use self- contained breathing apparatus and protective equipment. Cool endangered containers with water jet.
Unusual fire and explosion hazards:
May emit toxic fumes under fire conditions. Product can potentially float on water..

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use the Personal protective Equipment recommended in Section 8 of this SDS
Environmental Precautions	Spilled product may present a slipping hazard.
Methods for Containments and Clean-up	Contain large spills as best as possible. Dam flow with appropriate materials and absorb centralized spillage with inert material such as vermiculite, cat litter or diamaceous earth. Sweep and dispose of as needed. For small spills, wipe away and wash affected area.

7. HANDLING AND STORAGE

Handling	Avoid allowing dried product to become airborne, as particles may irritate lungs. Wear gloves while in use, protect hands, face and skin from debris, particles and skin contact as best as possible. Abrasives present may irritate skin.
Storage	Store with caution. Do not store in temperatures above 120F. Bottle/container may swell and or fumes accumulate. Store in adequate ventilation.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guideline Comments	Exposure Limits:

SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC	64742-89-8	
OSHA Z1	time weighted average	500 ppm
ACGIH	time weighted average	300 ppm
ACGIH	time weighted average	1,370 mg/m3

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
	Remarks	Upper Respiratory Tract irritation Exposure by all routes should be carefully controlled to levels as low as possible. Suspected human carcinogen		
		TWA	5.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Not classifiable as a human carcinogen		
		TWA	5.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	10.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	5 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Not classifiable as a human carcinogen		
		Upper Respiratory Tract irritation Exposure by all routes should be carefully controlled to levels as low as possible. Suspected human carcinogen		
		TWA	5 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	5 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	10 mg/m3	USA. NIOSH Recommended Exposure Limits

Engineering Controls Adequate ventilation necessary.

Personal Protective Equipment (PPE)

Eye/Face Protection If mechanically buffing solution, please wear appropriate face/eye protection and a niosh approved respirator.

Skin Protection Wear gloves while in use.

Respiratory Protection Niosh approved respirator for airborne particles if adequate ventilation not present.

General Hygiene Considerations Treat products as sum of its components. Oxides and particulate matter may irritate lungs. Wash hands before and after use and before smoking eating or drinking.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State liquid

Appearance viscous pink fluid

Particle Size liquid and particle mixture. Particles may range from 50-400nm

Odor Benign

Odor Threshold No Available Data

Molecular Formula Mixture

Molecular Weight Mixture

Boiling Point 200F

Decomposition Temperature No Available Data

Melting point	32F
Freezing Point	32F
Relative Density	1g/cm3
Bulk Density	No Available Data
Solubility in Water	100%
Solubility in other liquids	No Available Data
pH	6-8
Flash point	No Available Data

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Avoid extreme temperatures.
Hazardous Decomposition Products	Carbon Oxides, copper oxides, tin oxides, zinc oxides and aluminum oxides.
Possibility of Hazardous Reactions	Do not bring into contact with oxidizers.

11. TOXICOLOGICAL INFORMATION

Powdered oxides pose hazards as lung irritants if airborne.

64741-88-4 LC50 Inhalation - Rat - 4 h - > 5.33 mg/l (OECD Test Guideline 403)

Effects, Acute Exposure

Skin Contact	little immediate effect; may be mildly irritating; *of 14 reported tests on rabbits, 7 rated this type of hydrocarbon "not irritating", 6 "irritating", with one inconclusive*[1]
Skin Absorption	slight; no toxic effects by this route
Eye Contact	liquid slightly irritating; *11 reported tests on rabbits all rated this type of hydrocarboin as "not irritating"*[1], some reports suggest that vapour irritating above 150ppm
Inhalation	400ppm+ may cause burning sensation in nose & throat, intoxication dizziness, fatigue
Ingestion	may cause diarrhoea & stomach discomfort – not a route of industrial exposure
LD_{50} (oral)	5500-34,600mg/kg (rat)
LD_{50} (skin)	2000-15,400mg/kg (rabbit)
LC_{50} (inhalation)	3400-8000ppm (rat)

Aliphatic Naptha:

Triethanolamine:

Acute toxicity
LD50 Oral - Mouse - 5,846 mg/kg
Remarks: Behavioral:Convulsions or effect on seizure threshold. Diarrhoea Kidney, Ureter, Bladder:Other changes.

LD50 Oral - Rat - 5,530 mg/kg
Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Lacrimation. Diarrhoea Skin and Appendages: Other: Hair.

LD50 Oral - Rabbit - 2,200 mg/kg

LD50 Oral - Guinea pig - 2,200 mg/kg

Inhalation: No data available

LD50 Dermal - Rabbit - > 22.5 g/kg

Isopropyl Alcohol:

Acute toxicity
LD50 Oral - Rat - 5,045 mg/kg
Remarks: Behavioral:Altered sleep time (including change in righting reflex). Behavioral:Somnolence (general depressed activity).

LC50 Inhalation - Rat - 8 h - 16000 ppm

LD50 Dermal - Rabbit - 12,800 mg/kg

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Mild skin irritation

Skin Irritation/Corrosion
Naptha and Polydimethylsiloxane are known skin irritants under certain repeated prolonged exposure.
Eye Irritation/Corrosion
Particulate matter may cause eye irritation. Aliphatic Naptha, oleic acid and triethanolamine are eye irritants. Exercise caution.
Effects of Short-Term (Acute) Exposure
No data available.
Inhalation
No data available.
Ingestion
No data available.

12. ECOLOGICAL TOXICITY

General Comments No known components of this formula that are potentially environmentally hazardous are known bio accumulators or otherwise no data available enough to determine appropriate designation.

64741-88-4 Toxicity to fish static test LC50 - Pimephales promelas (fathead minnow) - > 100 mg/l - 96 h (OECD Test Guideline 203)

ISOPROPYL ALCOHOL

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 9,640.00 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 5,102.00 mg/l - 24 h
	Immobilization EC50 - Daphnia magna (Water flea) - 6,851 mg/l - 24 h
Toxicity to algae	EC50 - Desmodesmus subspicatus (green algae) - > 2,000.00 mg/l - 72 h
	EC50 - Algae - > 1,000.00 mg/l - 24 h

ALIPHATIC NAPTHA

Bioaccumulation	this product is not a bioaccumulator
Biodegradation	biodegrades slowly in the presence of oxygen (rate unknown); much faster in acclimated (polluted) water than pristine water (*should be under 30 days in sewage treatment facility*)
Abiotic Degradation	reacts with atmospheric hydroxyl radicals; estimated ½-life in air less than one day
Mobility in soil, water	water insoluble; low soil mobility; adsorbs to soil helping it remain stationary
Aquatic Toxicity	
LC_{50} (Fish, 96hr)	45mg/litre *emulsified*, 18-20mg/litre – *water soluble* (Pimephelas promelas) ***NOTE:*** *Mineral spirits is essentially water insoluble. The above tests recognize this. The 1st test emulsified the product, the 2nd equilibrated it with water, then tested.*
LC_{50} (Crustacea, 48hr)	1.4, 1.9, 3-10, 21 & 40-89mg/litre (Daphnia magna)[1]
LC_{50} (Algae, 72hr)	1-3, 4.3, 5.0, 8.3 & 10-30mg/litre (Pseudokirchnerella subcapitata)[1]
LC_{50} (Bacteria)	678mg/litre (Tetrahymena pyriformis – *computer estimate*)[1]

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, provincial and local government regulations. Containers should NOT be re-used. Containers should be disposed of in accordance with government guidelines.

14. TRANSPORT INFORMATION

Shipping Information

Product is not UN rated. Product is not flammable or known to have any restrictions in transport. Ensure, before use, that product is not restricted by any local, state or federal environmental restrictions not otherwise stated.

Special Shipping Information

Not applicable.

HMIS RATING

HEALTH	**1**
FIRE	**1**
REACTIVITY	**0**

15. REGULATORY INFORMATION

United States

SARA 311/312 Hazards Chronic Health Hazard

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Oleic acid	112-80-1	1989-08-11

New Jersey Right To Know Components

	CAS-No.	Revision Date
Oleic acid	112-80-1	1989-08-11

Massachusetts Right To Know Components

	CAS-No.	Revision Date
2,2',2"-Nitrilotriethanol	102-71-6	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
2,2',2"-Nitrilotriethanol	102-71-6	1993-04-24

New Jersey Right To Know Components

2,2',2"-Nitrilotriethanol	102-71-6	1993-04-24

Massachusetts Right To Know Components
Distillates (petroleum), solvent-refined heavy paraffinic CAS-No. 64741-88-4 Revision Date 1989-08-11
Pennsylvania Right To Know Components
Distillates (petroleum), solvent-refined heavy paraffinic CAS-No. 64741-88-4 Revision Date 1989-08-11
New Jersey Right To Know Components
Distillates (petroleum), solvent-refined heavy paraffinic CAS-No. 64741-88-4 Revision Date 1989-08-11

California

Product is not known, at this time, to contain any California prop 65 materials.

16. OTHER INFORMATION

SDS Prepared by **Total Import Solutions, Inc. dba NANOSKIN Car Care Products**

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