



SAFETY DATA SHEET

5 Nitro 2 Amino Anizol

Page 1(13)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Substance or preparation name (trade name)
5 Nitro 2 Amino Anizol

Name of company / address

NILKANTH ORGANICS PVT. LTD.
Plot No. 158, GIDC, Ind. Estate, Ankleshwar
Ph no.02646-222503
e-mail : info@nilkanthorganics.co.in

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification in accordance with ABNT NBR 14725 Standard

Acute toxicity (Oral)	: Category 4
Acute toxicity (Inhalation)	: Category 5
Acute toxicity (Dermal)	: Category 5
Eye irritation	: Category 2
Specific target organ toxicity - single exposure (Inhalation)	: Category 3
Skin irritation (Dermal)	: Category 2

The product is classified and labelled in accordance with GHS regulation and the relevant national laws.

GHS label elements in accordance with ABNT NBR 14725 Standard


The product is classified and labelled in accordance with GHS regulation and the relevant national laws.

SAFETY DATA SHEET



5 Nitro 2 Amino Anizol

Page 2(13)

- Hazard pictograms : 
- Signal word : Warning
- Hazard statements : H302 Harmful if swallowed.
H333 May be harmful if inhaled.
H313 May be harmful in contact with skin.
H320 Causes eye irritation.
H335 May cause respiratory irritation.
H315 Causes skin irritation.
H411 Toxic to aquatic life with long lasting effects.
- Precautionary statements : P272 Contaminated work clothing should not be allowed out of the workplace.
- Prevention:**
P260 Do not breathe dust or mist.
P262 Do not get in eyes, on skin, or on clothing.
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
- Response:**
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 cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P315 Get immediate medical advice/ attention.
- Storage:**
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P402 Store in a dry place.
- Disposal:**
P501 Dispose of contents/ container to an approved incineration plant.

Other hazards which do not result in classification

- Harmful if swallowed.
Irritating to eyes, respiratory system and skin.
Limited evidence of a carcinogenic effect.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

- Substance / Mixture : Substance
CAS-No. : 97-52-9

SAFETY DATA SHEET

5 Nitro 2 Amino Anizol

Page 3(13)

Hazardous components

4-Nitro-o-anisidine	97-52-9
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SECTION 4. FIRST AID MEASURES

General advice	: Remove/Take off immediately all contaminated clothing.
If inhaled	: Move the victim to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth or mouth-to-nose resuscitation. Get medical attention immediately.
In case of skin contact	: In case of contact, immediately flush skin with soap and plenty of water.
In case of eye contact	: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
If swallowed	: Do NOT induce vomiting. If the victim is conscious let him drink plenty of water; immediately call a medical doctor.
Most important symptoms and effects, both acute and delayed	: None known.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Foam Water spray jet Dry chemical Carbon dioxide (CO2)
Specific hazards during firefighting	: In case of fire hazardous decomposition products may be produced such as: irritating fumes

SECTION 6. ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up	: Take up mechanically Treat recovered material as described in the section "Disposal considerations". Avoid dust formation.
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SECTION 7. HANDLING AND STORAGE

SAFETY DATA SHEET

5 Nitro 2 Amino Anizol

Page 4(13)

Advice on protection against fire and explosion	: Keep away from sources of ignition - No smoking. Take precautionary measures against build-up of electrostatic charges, e.g earthing during loading and off-loading operations. Avoid dust formation.
Hygiene measures	: Keep away from food and drink. Avoid contact with skin and eyes. Wash hands before breaks and at the end of workday. Clean skin thoroughly after work; apply skin cream.
Technical measures/Precautions	: Keep containers tightly closed in a dry, cool and well-ventilated place.
Further information on storage stability	: Storage period > 12 month

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Personal protective equipment

Respiratory protection	: Half mask Respirator with a particle filter (EN 143)
Hand protection Remarks	: PVC disposable gloves
Eye protection	: Safety glasses
Skin and body protection	: working clothes PVC Boots - depending on the operation, consider using PVC Boots with steel toe caps.
Protective measures	: Ensure that eyewash stations and safety showers are close to the workstation location.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: powder
Colour	: yellow
Odour	: aromatic
Melting point	: 139 - 142 °C
Boiling point	: not available

SAFETY DATA SHEET

5 Nitro 2 Amino Anizol

Page 5(13)

Bulk density	:	approx. 600 kg/m ³
Solubility(ies)		
Water solubility	:	insoluble
Solubility in other solvents	:	Description: soluble in Alcohols
Partition coefficient: n-octanol/water	:	log Pow: 1,72 (23 °C)
		pH: 7
		Method: OECD Test Guideline 107
Auto-ignition temperature	:	> 360 °C

SECTION 10. STABILITY AND REACTIVITY

Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Hazardous decomposition products	:	Nitrogen oxides (NO _x)

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity	:	LD50 (Rat): 997 mg/kg
Acute inhalation toxicity	:	Remarks: no data available
Acute dermal toxicity	:	LD0 (Rat, male and female): > 2.000 mg/kg Method: OECD Test Guideline 402 GLP: no

Components:

4-Nitro-o-anisidine:

Acute oral toxicity	:	LD50 (Rat, female): 1.260 mg/kg Method: Other GLP: no
Acute inhalation toxicity	:	Remarks: no data available
Acute dermal toxicity	:	LD0 (Rat, male and female): > 2.000 mg/kg Method: OECD Test Guideline 402 GLP: no

Skin corrosion/irritation

Product:

Result	:	irritating
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SAFETY DATA SHEET

5 Nitro 2 Amino Anizol

Page 6(13)

Components:

4-Nitro-o-anisidine:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : yes

Serious eye damage/eye irritation

Product:

Result : irritating

Components:

4-Nitro-o-anisidine:

Species : Rabbit
Result : No eye irritation
Exposure time : 72 h
Method : OECD Test Guideline 405
GLP : no

Respiratory or skin sensitisation

Product:

Test Type : Maximisation Test
Exposure routes : Dermal
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Not a skin sensitizer.
GLP : no

Assessment : Harmful if swallowed.

Components:

4-Nitro-o-anisidine:

Test Type : Maximisation Test
Exposure routes : Dermal
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Not a skin sensitizer.
GLP : no

Assessment : Harmful if swallowed.

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Test Type: Gene Mutation Assay in Vitro
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: Other

SAFETY DATA SHEET

5 Nitro 2 Amino Anizol

Page 7(13)

Result: positive

GLP: no

Test Type: Chromosome aberration test in vitro

Test system: Chinese hamster lung cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: yes

Germ cell mutagenicity -
Assessment

: Weight of evidence does not support classification as a germ cell mutagen.

Components:

4-Nitro-o-anisidine:

Genotoxicity in vitro

: Test Type: Gene Mutation Assay in Vitro

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: Other

Result: positive

GLP: no

Test Type: Chromosome aberration test in vitro

Test system: Chinese hamster lung cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: yes

Germ cell mutagenicity -
Assessment

: Weight of evidence does not support classification as a germ cell mutagen.

Carcinogenicity

Product:

Carcinogenicity -
Assessment

: Limited evidence of carcinogenicity in animal studies

Components:

4-Nitro-o-anisidine:

Carcinogenicity -
Assessment

: Limited evidence of carcinogenicity in animal studies

Reproductive toxicity

Product:

Reproductive toxicity -
Assessment

: No information available.

Components:

4-Nitro-o-anisidine:

SAFETY DATA SHEET

5 Nitro 2 Amino Anizol

Page 8(13)

Reproductive toxicity - Assessment : No information available.

STOT - single exposure

Product:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Components:

4-Nitro-o-anisidine:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Product:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Components:

4-Nitro-o-anisidine:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Product:

Remarks : no data available

Repeated dose toxicity - Assessment : Harmful if swallowed.

Components:

4-Nitro-o-anisidine:

Remarks : no data available

Repeated dose toxicity - Assessment : Harmful if swallowed.

Aspiration toxicity

Product:

no data available

Components:

4-Nitro-o-anisidine:

no data available

SAFETY DATA SHEET

5 Nitro 2 Amino Anizol

Page 9(13)

Further information

Product:

Remarks : On the basis of structural similarity, methaemoglobin formation cannot be excluded

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish :
Remarks: No data available. No information on fish toxicity was found in the specialised literature.

Toxicity to daphnia and other aquatic invertebrates :
Remarks: no data available

Toxicity to algae :
Remarks: no data available

Toxicity to fish (Chronic toxicity) :
Remarks: no data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) :
Remarks: no data available

Toxicity to microorganisms :
Remarks: No data available. No information on bacteria toxicity was found in the specialised literature.

Ecotoxicology Assessment

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Components:

4-Nitro-o-anisidine:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 50 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 7,07 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 33 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

SAFETY DATA SHEET

5 Nitro 2 Amino Anizol

Page 10(13)

GLP: yes

Toxicity to fish (Chronic toxicity) : Remarks: no data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: no data available

Ecotoxicology Assessment

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Persistence and degradability

Product:

Biodegradability : Result: Not readily biodegradable.
Method: Estimated (Ecosar)

Components:

4-Nitro-o-anisidine:

Biodegradability : aerobic
Inoculum: activated sludge
Concentration: 70 mg/l
Chemical Oxygen Demand (COD)
Result: Not biodegradable
Biodegradation: 0 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
GLP: yes

Bioaccumulative potential

Components:

4-Nitro-o-anisidine:

Partition coefficient: n-octanol/water : log Pow: 1,72 (23 °C)
pH: 7
Method: OECD Test Guideline 107

Mobility in soil

no data available

Other adverse effects

Product:

Results of PBT and vPvB assessment : The substance is not identified as a PBT or as a vPvB substance.

Additional ecological information : No data can be given, owing to the product's insolubility in water.

SAFETY DATA SHEET

5 Nitro 2 Amino Anizol

Page 11(13)

Components:

4-Nitro-o-anisidine:

Results of PBT and vPvB assessment : The substance is not identified as a PBT or as a vPvB substance.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : In accordance with current regulations may be taken to waste disposal site or incineration plant, after consultation with site operator and/or with the responsible authority

Contaminated packaging : Contaminated packages or drums must be treated as waste, and must be disposed of or treated for reuse/recycling in an installation approved by Environmental Authorities according to local regulations. The wastes generated from such treatment of the packages must be processed in order to avoid environmental contamination.

SECTION 14. TRANSPORT INFORMATION

Terrestrial (railways, highways) - ANTT:

Proper shipping name: Environmentally hazardous substance, solid, n.o.s.
Class: 9
Packing group: III
UN no. UN 3077
Primary risk: 9
Hazard no. : 90
Remarks Shipment permitted
Hazard inducer(s): 5-Nitro-2-amino anisole

Air - ANAC:

Proper shipping name: Environmentally hazardous substance, solid, n.o.s.
Class: 9
Packing group: III
UN/ID number: UN 3077
Primary risk: 9
Remarks Shipment permitted
Hazard inducer(s): 5-Nitro-2-amino anisole

Ship (sea, rivers, lakes) - IMDG:

Proper shipping name: Environmentally hazardous substance, solid, n.o.s.
Class: 9
Packing group: III
UN no. UN 3077
Primary risk: 9
Remarks Shipment permitted
Hazard inducer(s): 5-Nitro-2-amino anisole
Marine pollutant: Marine Pollutant
EmS : F-A S-F

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Apart from the data/regulations specified in this chapter, no further information is available concerning safety, health and environmental protection.

International Regulations

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECS - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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SAFETY DATA SHEET

5 Nitro 2 Amino Anizol

Page 13(13)

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