



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 2/7/2019 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance

Substance name : 2-Methyl-3-nitroaniline (2-Amino-6-nitrotoluene)

 IUPAC name
 : 3-nitro-o-toluidine

 EC-No.
 : 210-059-6

 CAS-No.
 : 603-83-8

 Product code
 : 62167709

 Formula
 : C7H8N2O2

 Product group
 : Raw material

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

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use

Industrial/Professional use spec : Industrial Laboratory use.

For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Scafell Organics Molekula Ltd Lingfield Way Darlington - England

T +44 (0) 1949 823777 / +44 (0) 7590 545705

info@molekula.com / kbowen@molekula.com - www.molekula.com

1.4. Emergency telephone number

Emergency number : +44 (0) 7590 545705

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 3

Acute toxicity (dermal), Category 3

H311

Acute toxicity (inhal.), Category 3

Specific target organ toxicity — Repeated exposure, Category 2

Hazardous to the aquatic environment — Chronic Hazard, Category 1

H410

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)







GHS06

GHS08

GHS09

Signal word (CLP) : Danger

Hazard statements (CLP) : H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled.

H373 - May cause damage to organs through prolonged or repeated exposure.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P260 - Do not breathe dusts or mists.

P273 - Avoid release to the environment.

P280 - Wear protective clothing, eye protection, face protection, protective gloves. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.

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.

GB - en 1/8

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : Mono-constituent

Name	Product identifier	%
2-Methyl-3-nitroaniline (2-Amino-6-nitrotoluene)	(CAS-No.) 603-83-8 (EC-No.) 210-059-6	100

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. If possible show this sheet, if not available show packaging or label. Do not leave affected person unattended.

First-aid measures after inhalation

: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. If experiencing respiratory symptoms: Get medical advice/attention.

First-aid measures after skin contact

: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Do not remove clothing if it sticks to the skin. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact

: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion

: Rinse mouth. Do NOT induce vomiting. Get medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects

: SYMPTOMS MAY BE DELAYED. Toxic if inhaled. Chronic (long-term) health effects may result from repeated overexposure. Toxic if swallowed or in contact with skin.

Symptoms/effects after inhalation

: May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing. Possible irritation of mucous membranes and digestive tract, nausea, vomiting.

Symptoms/effects after skin contact

: Repeated exposure to this material can result in absorption through skin causing significant

Symptoms/effects after eye contact

: May cause eye irritation. redness, itching, tears.

Symptoms/effects after ingestion

: Swallowing a small quantity of this material will result in serious health hazard. Abdominal pain, nausea. Vomiting.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Carbon oxides (CO, CO2). Nitrogen oxides.

5.3. Advice for firefighters

Precautionary measures fire : Exposure to fire/heat: seal off low-lying areas. Keep container tightly closed and away from

heat, sparks and flame.

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment. Use extinguishing agent suitable for surrounding fire.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : Warn all persons of toxic hazard.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

: Isolate from fire, if possible, without unnecessary risk. No flames, no sparks. Eliminate all General measures sources of ignition. Avoid dust formation.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

2/7/2019 (Version: 1.0) GB - en 2/8

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Emergency procedures : Evacuate unnecessary personnel. Mark out the contaminated area with signs and prevent

access to unauthorized personnel. Avoid contact with skin, eyes and clothing. Do not breathe dust. Do not touch or walk on the spilled product.

Measures in case of dust release : Keep upwind. Ventilate the area thoroughly, especially low lying areas (basements,

workpits etc).

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Use self-contained breathing apparatus and

chemically protective clothing.

Emergency procedures : Ventilate area. Stop leak if safe to do so.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimise generation of dust. Store away

from other materials

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide local exhaust or general room ventilation. Avoid creating or spreading dust.

Hygiene measures

: Take off immediately all contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace. Always wash hands after handling the product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke

when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Direct

sunlight, Heat sources. Keep container closed when not in use.

Incompatible products : Acid chlorides. Acid anhydrides. Strong oxidisers. Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

Storage area : Store at ambient temperature.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety procedures. Provide local exhaust or general room ventilation.

Personal protective equipment:

Wear recommended personal protective equipment. Avoid all unnecessary exposure.

Hand protection:

The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standard EN 374

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0.11		EN 374

Eye protection:

Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Use eye protection according to EN 166, designed to protect against powders and dusts. Chemical goggles or safety glasses

Туре	Use	Characteristics	Standard
Face shield, Safety glasses	Dust	With side shields	EN 166

Skin and body protection:

Emergency safety showers should be available in the immediate vicinity of any potential exposure. Keep suitable chemically resistant protective clothing readily available for emergency use

Туре	Standard
Total impervious protective suits, gloves, and boots must be worn to prevent any contact with the product	EN ISO 13982

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Respiratory protection:

Self contained breathing apparatus, in case of emergency. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

Device	Filter type	Condition	Standard
Respiratory protective device with a particle filter	Type P2	Dust protection	EN 14387

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Crystalline powder. Molecular mass : 152.15 g/mol Colour : Yellow-green. Odour : No data available. Odour threshold · No data available pΗ : No data available Relative evaporation rate (butylacetate=1) : No data available : 89 - 91 °C lit. Melting point Freezing point : No data available

Boiling point : 305 °C

Flash point : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) · Non flammable Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density : No data available Density : 1.378 g/cm3 Solubility : No data available : No data available Log Pow : No data available Viscosity, kinematic Viscosity, dynamic : No data available Explosive properties : No data available Oxidising properties : No data available : No data available **Explosive limits**

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from sunlight.

10.5. Incompatible materials

Acid chlorides. Acid anhydrides. Strong oxidizers.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition generates: Carbon oxides (CO, CO2). Nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Oral: Toxic if swallowed.

Acute toxicity (dermal) : Dermal: Toxic in contact with skin.

2/7/2019 (Version: 1.0) GB - en 4/8

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Acute toxicity (inhalation) : Inhalation: Toxic if inhaled.

Skin corrosion/irritation : Not classified

Additional information : Based on available data, the classification criteria are not met

Serious eye damage/irritation : Not classified

Additional information : Based on available data, the classification criteria are not met

Respiratory or skin sensitisation : Not classified

Additional information : Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-single exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

Additional information : Based on available data, the classification criteria are not met

Potential adverse human health effects and : Toxic if swallowed. Toxic in contact with skin.

symptoms

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Toxic to aquatic life with long lasting effects.

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

2-Methyl-3-nitroaniline (2-Amino-6-nitrotoluene) (603-83-8)

EC50 Daphnia 1 13.2 mg/l Daphnia magna (Water flea) - 48hr

12.2. Persistence and degradability

2-Methyl-3-nitroaniline (2-Amino-6-nitrotoluene) (603-83-8)

Persistence and degradability No data available.

12.3. Bioaccumulative potential

2-Methyl-3-nitroaniline (2-Amino-6-nitrotoluene) (603-83-8)

Bioaccumulative potential No data available.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

2-Methyl-3-nitroaniline (2-Amino-6-nitrotoluene) (603-83-8)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Ecology - waste materials : Avoid release to the environment. Hazardous waste due to toxicity.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
2660	2660	2660	2660	2660

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

14.2. UN proper shipping name				
NITROTOLUIDINES (MONO)	NITROTOLUIDINES (MONO)	Nitrotoluidines (mono)	NITROTOLUIDINES (MONO)	NITROTOLUIDINES (MONO)
Transport document descr	ription			
UN 2660 NITROTOLUIDINES (MONO) (2-Methyl-3- nitroaniline (2-Amino-6- nitrotoluene)), 6.1, III, (E), ENVIRONMENTALLY HAZARDOUS	UN 2660 NITROTOLUIDINES (MONO) (2-Methyl-3- nitroaniline (2-Amino-6- nitrotoluene)), 6.1, III, MARINE POLLUTANT/ENVIRONME NTALLY HAZARDOUS	UN 2660 Nitrotoluidines (mono) (2-Methyl-3- nitroaniline (2-Amino-6- nitrotoluene)), 6.1, III, ENVIRONMENTALLY HAZARDOUS	UN 2660 NITROTOLUIDINES (MONO) (2-Methyl-3- nitroaniline (2-Amino-6- nitrotoluene)), 6.1, III, ENVIRONMENTALLY HAZARDOUS	UN 2660 NITROTOLUIDINES (MONO) (2-Methyl-3- nitroaniline (2-Amino-6- nitrotoluene)), 6.1, III, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard	class(es)			
6.1	6.1	6.1	6.1	6.1
() Y	6	6	6	6
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
No supplementary information available				
14.6. Special precautions	s for user			

Overland transport

Classification code (ADR) : T2 Limited quantities (ADR) : 5kg Excepted quantities (ADR) : E1

Packing instructions (ADR) : P002, IBC08, LP02, R001

Special packing provisions (ADR) : B3 Mixed packing provisions (ADR) : MP10 Portable tank and bulk container instructions : T1 (ADR)

Portable tank and bulk container special provisions

(ADR)

: SGAH, L4BH Tank code (ADR) : TU15, TE19 Tank special provisions (ADR)

Vehicle for tank carriage : AT Transport category (ADR) : 2

Special provisions for carriage - Bulk (ADR) : VC1, VC2, AP7 Special provisions for carriage - Loading, : CV13, CV28

unloading and handling (ADR)

Special provisions for carriage - Operation (ADR) : S9 Hazard identification number (Kemler No.) : 60

Orange plates

60 **2660**

: TP33

Tunnel restriction code (ADR) : E EAC code : 2X

Transport by sea

: P002, LP02 Packing instructions (IMDG) IBC packing instructions (IMDG) : IBC08 IBC special provisions (IMDG) : B3 Tank instructions (IMDG) : T1

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Tank special provisions (IMDG) : F-A EmS-No. (Fire) EmS-No. (Spillage) : S-A : A Stowage category (IMDG)

Properties and observations (IMDG) : Yellow to orange-red crystalline solids. Insoluble in water. Toxic if swallowed, by skin

contact or by dust inhalation.

Air transport

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y645 PCA limited quantity max net quantity (IATA) : 10kg PCA packing instructions (IATA) : 670 PCA max net quantity (IATA) : 100kg CAO packing instructions (IATA) : 677 CAO max net quantity (IATA) : 200ka ERG code (IATA) : 6L

Inland waterway transport

Classification code (ADN) : T2 : 802 Special provisions (ADN) Limited quantities (ADN) : 5 kg Excepted quantities (ADN) : E1 Equipment required (ADN) : PP, EP Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : T2 Excepted quantities (RID) : E1

Packing instructions (RID) : P002, IBC08, LP02, R001

Special packing provisions (RID) · B3 Mixed packing provisions (RID) : MP10 Portable tank and bulk container instructions (RID) Portable tank and bulk container special provisions · TP33

(RID)

Tank codes for RID tanks (RID) : SGAH, L4BH : TU15 Special provisions for RID tanks (RID) Transport category (RID)

Special provisions for carriage – Bulk (RID)

: VC1, VC2, AP7 Special provisions for carriage - Loading, : CW13, CW28, CW31

unloading and handling (RID)

Colis express (express parcels) (RID) Hazard identification number (RID) . 60

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

2-Methyl-3-nitroaniline (2-Amino-6-nitrotoluene) is not on the REACH Candidate List 2-Methyl-3-nitroaniline (2-Amino-6-nitrotoluene) is not on the REACH Annex XIV List Directive 2012/18/EU (SEVESO III)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other information

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Other information : None.

Full text of H- and EUH-statements:		
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3	
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1	
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2	
H301	Toxic if swallowed.	
H311	Toxic in contact with skin.	
H331	Toxic if inhaled.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H410	Very toxic to aquatic life with long lasting effects.	

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product