

Safety Data Sheet

OSHA 1910.1200
Revision Date: 06/29/2017
Print Date: 08/29/2017
Version: 5.0



Accelerator 101

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1. Product and Company Identification

1.1. Product identifier

Trade name : Accelerator 101
Substance name : Activator on the basis of N,N-dimethyl-p-toluidine
CAS-No. : 99-97-8

1.2. Recommended use of the chemical and restrictions on use

Recommended use(s): additional accelerator for floor coating and road marking
additional accelerator for floor coating and road marking

Non-recommended use(s): None known.

1.3. Details of the supplier of the safety data sheet

Evonik Corporation USA
299 Jefferson Road
Parsippany, NJ 07054-0677
USA

973-929-8000
973-929-8040 (fax)

product-regulatory-services@evonik.com

973-929-8060 (Product Information Number)
1-800-424-9300 (24 Hour Emergency Number, CHEMTREC)

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation 29CFR 1910.1200

Flammable liquids	Hazard category Category 4	H227
Acute toxicity (Oral)	Hazard category Category 4	H302
Acute toxicity (Inhalation)	Hazard category Category 2	H330
Carcinogenicity	Hazard category Category 2	H351
Specific target organ toxicity - repeated exposure	Hazard category Category 2	H373
Acute aquatic toxicity	Hazard category Category 3	H402
Chronic aquatic toxicity	Hazard category Category 3	H412

2.2. Label elements

GHS pictogram



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Signal word	Danger
Hazard statement	Combustible liquid. (H227) Harmful if swallowed. (H302) Fatal if inhaled. (H330) Suspected of causing cancer. (H351) May cause damage to organs through prolonged or repeated exposure. (H373) Harmful to aquatic life with long lasting effects. (H412)
Precautionary Statement (Prevention)	Obtain special instructions before use. (P201) Do not handle until all safety precautions have been read and understood. (P202) Keep away from heat/sparks/open flames/hot surfaces. No smoking. (P210) Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. (P260) Wash skin thoroughly after handling. (P264) Do not eat, drink or smoke when using this product. (P270) Use only outdoors or in a well-ventilated area. (P271) Avoid release to the environment. (P273) Wear protective gloves/ protective clothing/ eye protection/ face protection. (P280) Wear respiratory protection. (P284)
Precautionary Statement (Response)	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. (P301 + P312) IF INHALED: Remove person to fresh air and keep comfortable for breathing. (P304 + P340) IF exposed or concerned: Get medical advice/ attention. (P308 + P313) Immediately call a POISON CENTER/doctor. (P310) Rinse mouth. (P330) In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish. (P370 + P378)
Precautionary Statement (Storage)	Store in a well-ventilated place. Keep container tightly closed. (P403 + P233) Store locked up. (P405)
Precautionary Statement (Disposal)	Dispose of contents/ container to an approved waste disposal plant. (P501)

Hazardous component(s) for labelling contains N,N-dimethyl-p-toluidine

2.3. Other hazards

None known

3. Composition/information on ingredients

3.1. Substances

Hazardous Ingredients

Component	CAS-No.	Content	Hazard class / Hazard category / Hazard
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			statement
N,N-dimethyl-p-toluidine	99-97-8	>= 90.0 - <= 100.0 %	Flammable liquids / Category 4; H227 Acute toxicity / Category 4 (Oral); H302 Acute toxicity / Category 2 (Inhalation); H330 Carcinogenicity / Category 2; H351 Specific target organ toxicity - repeated exposure / Category 2; H373 Acute aquatic toxicity / Category 3; H402 Chronic aquatic toxicity / Category 3; H412

3.2. Mixtures

4. First-aid measures

4.1. Description of first aid measures

General advice	Medical treatment is necessary if symptoms occur which are obviously caused by skin or eye contact with the product or by inhalation of its vapours. Take off all contaminated clothing immediately. Wash contaminated clothing before re-use.
Inhalation	Remove to fresh air. If not breathing, give CPR. If breathing is difficult, give oxygen. Get immediate medical attention.
Skin contact	IF ON SKIN: Wash with plenty of water/ soap. Call a physician immediately. If skin, lips or fingernails become discoloured, apply oxygen. Refrain from alcohol consumption and physical exertion. A physician must be consulted at all costs!
Eye contact	Flush eyes thoroughly with a large amount of water and consult a physician. Seek medical advice immediately.
Ingestion	Get immediate medical attention. Only induce vomiting if directed by a physician. Never give anything by mouth to an unconscious person.

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

None known

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

Symptomatic treatment.

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media	water spray, foam, dry chemical, carbon dioxide
Unsuitable extinguishing media	full water jet

5.2. Specific hazards arising from the chemical

In fires, hazardous combustion gases are formed: nitrogen oxides

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5.3. Special protective equipment and precautions for fire-fighters

Evacuate enclosed and surrounding areas. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Vapors can travel to a source of ignition and flash back. Toxic vapors may be given off at high temperatures.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Assure sufficient ventilation. Use personal protective clothing. Remove persons to safety. Keep away sources of ignition. Use breathing apparatus if exposed to vapours/dust/mist/aerosol.

6.2. Environmental precautions

Prevent product from getting into drains/surface water/groundwater.

6.3. Methods and materials for containment and cleaning up

Remove sources of ignition and ventilate area. Absorb spill with inert material and place in a chemical waste container. Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil. Use personal protective equipment. See Material Safety Data Sheet section 8, Exposure Controls/Personal Protection.

6.4. Reference to other sections

For personal protection see section 8.

7. Handling and storage

7.1. Precautions for safe handling

Safe handling advice

Avoid contact with eyes, skin and clothing. Use with adequate ventilation. Avoid breathing vapor or mist. Follow all MSDS/label precautions even after the container is emptied because it may retain product residues. Wash thoroughly after handling. Keep locked up.

Advice on protection against fire and explosion

Keep away from sources of ignition --- No smoking. Take precautionary measures against static discharges. When heated above the flash point and/or during spraying (atomizing), ignitable mixtures may form in air. In the event of fire, cool the endangered containers with water.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Keep container closed when not in use. Ensure there is good room ventilation. Keep away from sparks, flames and other sources of ignition. Keep away from heat. Keep only in the original container at a temperature not exceeding 40 °C. Store accessible to authorized persons only or under lock and key.

Advice on common storage

Do not store together with strong oxidizing agents.

Do not store together with combustible materials. Do not store Accelerator 101 in the proximity of Powder Hardener (50 % dibenzoyl peroxide).

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8. Exposure controls/personal protection

8.1. Control parameters

Exposure Limit Information Exposure Limit Information

N,N-DIMETHYL-P-TOLUIDINE

(CAS Number 99-97-8)

Occupational Exposure Values

Occupational Exposure Values		Remark(s):
ACGIH TLV-TWA		not established
ACGIH TLV-STEL		not established
OSHA PEL-TWA		not established
OSHA PEL-STEL		not established
NIOSH REL-TWA		not established
NIOSH REL-STEL		not established
OEL-TWA (North Carolina)		not established
OEL-STEL (North Carolina)		not established
OEL-TWA (Alberta)		not established
OEL-STEL (Alberta)		not established
OEL-TWA (British Columbia)		not established
OEL-STEL (British Columbia)		not established
OEL-TWA (Ontario)		not established
OEL-STEL (Ontario)		not established
OEL-TWA (Quebec)		not established
OEL-STEL (Quebec)		not established
OEL-TWA (Mexico)		not established
OEL-STEL (Mexico)		not established
AIHA WEELs-TWA	0.5 ppm	
Short-Term ESL:	90	
Annual ESL:	9	

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N,N-DIMETHYL-P-TOLUIDINE

(CAS Number 99-97-8)

Occupational Exposure Values

		Remark(s):
ACGIH TLV-TWA		not established
ACGIH TLV-STEL		not established
OSHA PEL-TWA		not established
OSHA PEL-STEL		not established
NIOSH REL-TWA		not established
NIOSH REL-STEL		not established
OEL-TWA (North Carolina)		not established
OEL-STEL (North Carolina)		not established
OEL-TWA (Alberta)		not established
OEL-STEL (Alberta)		not established
OEL-TWA (British Columbia)		not established
OEL-STEL (British Columbia)		not established
OEL-TWA (Ontario)		not established
OEL-STEL (Ontario)		not established
OEL-TWA (Quebec)		not established
OEL-STEL (Quebec)		not established
OEL-TWA (Mexico)		not established
OEL-STEL (Mexico)		not established
AIHA WEELs-TWA	0.5 ppm	
Short-Term ESL:	90	
Annual ESL:	9	

8.2. Exposure controls

Engineering controls

Ensure adequate ventilation, especially in confined areas. Refer to the current edition of 'Industrial Ventilation: A Manual of Recommended Practice' published by the American Conference of Government Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

8.3. Personal protective equipment

Protective measures	Do not breathe vapours. Absolutely avoid contact with the eyes and/or skin. Avoid exposure - Obtain special instructions before use. Safety shower and eye wash fountain should be available. If contamination of clothing is possible, chemical resistant clothing must be worn. To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.
Hygiene measures	Take off all contaminated clothing immediately. Store work clothing separately. Follow the usual good standards of occupational hygiene. Clean skin thoroughly after work; apply skin cream.
Respiratory protection	Exposure limits have not been established for this product or its components., Atmospheric levels should be maintained as low as possible by using engineering controls., If not feasible, use an MSHA/NIOSH

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	approved (or equivalent) air-purifying respirator equipped with filters for protection against dusts and mists., A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.
Hand protection	PVC gloves (minimal thickness 0.8 mm), Break through time ca. 120 min (EN 374) In practice, due to variable exposure conditions, this information can only be an aid to orientation for the selection of a suitable chemical protection glove. In particular, this information does not substitute suitability tests by the end user.
General information	Gloves should be replaced regularly, especially after extended contact with the product. For each work-place a suitable glove type has to be selected.
Eye protection	Use chemical splash goggles and face shield (ANSI Z87.1) or approved equivalent.
Skin and body protection	On handling of larger quantities: face mask, chemical-resistant boots and apron

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Colour	colorless, but darkens with exposure to light and air
Form	liquid
Odor	sweet aromatic, like amine
Odour Threshold	no data available
physical state	liquid
Melting point/freezing point	ca. -25 °C -13 °F
Boiling point/range	Boiling point/range ca. 211 °C (1,013 hPa) Boiling point/range 412 °F (1,013 hPa)
Flash point	ca. 83 °C ca. 181 °F (Tag Closed Cup)
Evaporation rate	0,5
Ignition temperature	ca. 425 °C (DIN 51794) ca. 797 °F (DIN 51794)
Autoignition temperature	no data available

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Decomposition temperature This product is stable under normal storage conditions.

Impact Sensitivity Not impact sensitive.

Lower explosion limit no data available

Upper explosion limit no data available

Flammability (solid, gas) Result: Sustains combustion

Vapour pressure ca. 0.1 hPa (= mbar) at 20 °C / 68 °F

Density 0.94 g/cm³ at 20 °C / 68 °F

Relative density no data available

Relative vapour density (related to air) 1

Solubility in water practically insoluble

Fat solubility no data available
Solubility (quantitative) no data available

Solubility (qualitative) miscible with esters and ketones

pH not applicable

n-Octanol/water partition coefficient log Pow 2.36, (HPLC) source: literature

Viscosity (dynamic) < 10 mPa.s at 23 °C / 73 °F (Brookfield)

Viscosity (kinematic) no data available

9.2. Other information

none

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10. Stability and reactivity

10.1. Reactivity

see section 10.2.

10.2. Chemical stability

This product is stable under normal storage conditions.

10.3. Possibility of hazardous reactions

Incompatible with iron.

In direct contact with concentrated peroxides, product may cause explosive dissociation of the peroxides.

10.4. Conditions to avoid

No specific hazards are known.

10.5. Incompatible materials

Do not add peroxides such as Powder Hardener (50 % dibenzoyl peroxide) to this material as vigorous decomposition may result.

Avoid contact with acids, acid chlorides, acid anhydrides and strong oxidizing agents.

carbon dioxide

Iron.

First disperse accelerator into DEGADUR® resin and then add and disperse the peroxide or peroxide solution.

10.6. Hazardous decomposition products

None when used as directed.

11. Toxicological information

11.1. Information on toxicological effects

toxicokinetics, metabolism and distribution	no specific test data available	
Acute Oral Toxicity	LD50 rat, FDA-Guideline (own study) Related to substance: N,N-dimethyl-p-toluidine	996 mg/kg
Acute Inhalational Toxicity	LC50 rat, 4 h Related to substance: N,N-dimethyl-p-toluidine	1.4 mg/l
Caustic burning / irritation of skin	Rabbit, 24 h, Draize, reevaluated acc. to OECD 404 Own study Related to substance: N,N-dimethyl-p-toluidine	Not irritating.
Serious eye damage/eye irritation	Contact with the eyes may cause irritation.	

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	Related to substance: product
Respiratory/skin sensitization	no specific test data available
Aspiration hazard	not applicable
Mutagenicity assessment	not mutagenic in bacteria <i>in vitro</i> Related to substance: N,N-dimethyl-p-toluidine
Carcinogenicity	IARC Group 2B: Possibly carcinogenic to humans There is evidence of carcinogenic effects. Carcinogen Category 2 (UN-GHS) Related to substance: N,N-dimethyl-p-toluidine
Reprotoxicity / teratogenicity	no specific test data available
Specific Target Organ Toxicity - Repeated exposure	no specific test data available
General information	Methaemoglobinaemia possible after skin contact. Symptoms of poisoning may occur many hours after contact. Possibility of liver damage. Related to substance: N,N-dimethyl-p-toluidine Carefully avoid contact with skin and eyes as well as inhalation of product vapours.

12. Ecological information

12.1. Toxicity

Aquatic toxicity, fish	LC50 Pimephales promelas (fathead minnow), flow through, 96 h Related to substance: N,N-dimethyl-p-toluidine	46 mg/l
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12.2. Persistence and degradability

Biodegradability	difficultly biodegradable, BOD Related to substance: N,N-dimethyl-p-toluidine	ca. 5 %
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12.3. Bioaccumulative potential

Bioaccumulation	Accumulation in organisms is not expected due to the coefficient of distribution of n-octanol in water (log Pow). Related to substance: N,N-dimethyl-p-toluidine
Environmental distribution	no specific test data available

12.4. Mobility in soil

Mobility	no specific test data available
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12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment PBT: no
vPvB: no

12.6. Other adverse effects

General Information Prevent substance from entering soil, natural bodies of water and sewer systems. May cause long-term adverse effects in the aquatic environment.

13. Disposal considerations

13.1. Waste treatment methods

Product Waste must be disposed of in accordance with federal, state and local regulations. Use a licensed waste handler.

Uncleaned packaging Contaminated packaging should ideally be emptied; it can then be recycled after having been decontaminated. Packaging that cannot be cleaned should be disposed of professionally. Uncontaminated packaging may be taken for recycling.

Code of waste EWC 07 02 08
waste from the manufacture, formulation, supply and use (MFSU) of plastics, synthetic rubber and man-made fibres - other still bottoms and reaction residues

14. Transport information

D.O.T. Road/Rail

14.1. UN number: UN 1708

14.2. UN proper shipping name: Toluidines, liquid

14.3. Transport hazard class(es): 6.1

14.4. Packing group: II

14.5. Environmental hazards (Marine pollutant): --

14.6. Special precautions for user: No

Air transport ICAO-TI/ATA-DGR

14.1. UN number: UN 1708

14.2. UN proper shipping name: Toluidines, liquid

14.3. Transport hazard class(es): 6.1

14.4. Packing group: II

14.5. Environmental hazards: --

14.6. Special precautions for user: No

Sea transport IMDG-Code/GGVSee (Germany)

14.1. UN number: UN 1708

14.2. UN proper shipping name: TOLUIDINES, LIQUID

14.3. Transport hazard class(es): 6.1

14.4. Packing group: II

14.5. Environmental hazards (Marine pollutant): --

14.6. Special precautions for user: No
EmS: F-A,S-A

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code :
for transportapproval see regulatory information

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15. Regulatory information

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

INVENTORY INFORMATION

REACH (EU)	pre-registered
TSCA (USA)	listed or exempted
DSL (CDN)	listed or exempted
AICS (AUS)	listed or exempted
METI (J)	listed or exempted
ECL (KOR)	listed or exempted
PICCS (RP)	listed or exempted
IECSC (CN)	listed or exempted
HSNO (NZ)	listed or exempted

US FEDERAL REGULATORY INFORMATION

Component / CASRN	TPQ [lbs]	CERCLA RQ [lbs] (40CFR302.4)	SARA 302 List of EHS	SARA 313 (40CFR372)	TSCA 12b
N,N-dimethyl-p-toluidine / 99-97-8	NONE	NONE	NO	NO	NO

COMPONENT CLASSIFICATION UNDER CLEAN AIR ACT SECTION 112

Component / CASRN	Weight %	HAP	EHAP
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PRODUCT CLASSIFICATION UNDER SECTION 311/312 OF SARA (40CFR370)

ACUTE, CHRONIC, FIRE,

US STATE REGULATORY INFORMATION

Component / CASRN	New Jersey RTK	Pennsylvan ia RTK	Massachus etts RTK	California Proposition 65 Cancer	California Proposition 65 Reproducti ve
N,N-dimethyl-p-toluidine / 99-97-8	NO	NO	NO	YES	NO

This product contains (a) chemical(s) known to the State of California to cause cancer.

16. Other information

	Health	Flammability	Physical Hazard
HMIS-Ratings	2*	2	1
NFPA-Ratings	2	2	1
HMIS Hazard Ratings		NFPA Hazard Ratings	

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4 = severe	4 = extreme
3 = serious	3 = high
2 = moderate	2 = moderate
1 = slight	1 = slight
0 = minimal	0 = insignificant
N = no rating for powders	N = no rating for powders
* = chronic health hazard	

Relevant H phrases from chapter 3

N,N-dimethyl-p-toluidine
H227 Combustible liquid.
H302 Harmful if swallowed.
H330 Fatal if inhaled.
H350 May cause cancer.
H373 May cause damage to organs through prolonged or repeated exposure.
H402 Harmful to aquatic life.
H412 Harmful to aquatic life with long lasting effects.
N,N-dimethyl-p-toluidine
H227 Combustible liquid.
H302 Harmful if swallowed.
H330 Fatal if inhaled.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

References

relevant manuals and publications
own examinations
own toxicological and ecotoxicological studies
toxicological and ecotoxicological studies of other manufacturers
SIAR
OECD-SIDS
RTK public files

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Places marked by || have been amended from the last version.

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Legend

ACC	American Chemistry Council
ACGIH	American Conference of Governmental Industrial Hygienists
ACS	Advisory Committee on Sustainability
ADI	Acceptable Daily Intake
ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration factor
BOD	Biochemical oxygen demand
c.c.	closed cup
CAO	Cargo Aircraft Only
Carc	Carcinogen

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CAS	Chemical Abstract Services
CDN	Canada
CEPA	Canadian Environmental Protection Act
CERCLA	Comprehensive Environmental Response – Compensation and Liability Act
CFR	Code of Federal Regulations
CMR	carcinogenic-mutagenic-toxic for reproduction
COD	Chemical oxygen demand
DIN	German Institute for Standardization
DMEL	Derived minimum effect level
DNEL	Derived no effect level
DOT	Department of Transportation
EC50	half maximal effective concentration
EPA	Environmental Protection Agency
ErC50	Reduction of Growth Rate
ERG	Emergency Response Guide Book
FDA	Food and Drug Administration
GHS	Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
GLP	Good Laboratory Practice
GMO	Genetic Modified Organism
HCS	Hazard Communication Standard
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
ICAO-TI	International Civil Aviation Organization- Technical Instructions
ICCA	International Council of Chemical Association
ID	Identification number
IMDG	International Maritime Dangerous Goods
IUPAC	International Union of Pure and Applied Chemistry
ISO	International Organization For Standardization
LC50	50 % Lethal Concentration
LD50	50 % Lethal Dose
L(E)C50	LC50 or EC50
LOAEL	Low est observed adverse effect level
LOEL	Low est observed effect level
MARPOL	International Convention for the Prevention of Pollution from Ships
NFPA	National Fire Protection Association
NOAEL	No observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
o. c.	open cup
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit
OSHA	Occupational Safety and Health Administration
PBT	Persistent, bioaccumulative, toxic
PEC	Predicted effect concentration
PNEC	Predicted no effect concentration
RQ	Reportable Quantity
SDS	Safety Data Sheet
STOT	Specific Target Organ Toxicity
UN	United Nations
vPvB	very persistent, very bioaccumulative
voc	volatile organic compounds
WHMIS	Workplace Hazardous Materials Information System
WHO	World Health Organization