

Accelerator 808

Safety Data Sheet

SECTION 1: Identification

1.1. Product identifier

Product name : Accelerator 808

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Manufacturing

1.3. Supplier

Zaclon LLC
2981 Independence Road
Cleveland, OH 44115
T 800-356-7327

1.4. Emergency telephone number

Emergency number : Chemtrec 1 800 424 9300

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CAN/US)

Skin sensitization, Category 1	H317
Carcinogenicity Category 2	H351
Specific target organ toxicity (repeated exposure) Category 2	H373
Full text of H statements : see section 16	

2.2. GHS Label elements, including precautionary statements

GHS CAN/US labeling

Hazard pictograms :



Signal word : Warning

Hazard statements : H317 - May cause an allergic skin reaction
H351 - Suspected of causing cancer
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P314 - Get medical advice/attention if you feel unwell.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P405 - Store locked up.

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P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity

No data available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Butanal, reaction products with aniline	CAS-No.: 68411-20-1	> 99
Aniline	CAS-No.: 62-53-3	0.2 – 0.3

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- First-aid measures after skin contact : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- First-aid measures after eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell.
- First-aid measures after ingestion : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention following exposure or if feeling unwell. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects after inhalation : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

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Symptoms/effects after skin contact	: May cause an allergic skin reaction.
Symptoms/effects after eye contact	: No known significant effects or critical hazards.
Symptoms/effects after ingestion	: No known significant effects or critical hazards.

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

5.2. Unsuitable extinguishing media

Unsuitable extinguishing media : None.

5.3. Specific hazards arising from the hazardous product

Fire hazard : In a fire or if heated, a pressure increase will occur and the container may burst.
Explosion hazard : None known.

5.4. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Firefighters should wear full protective gear.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

6.2. Methods and materials for containment and cleaning up

For containment : Stop the flow of material, if this is without risk.
Methods for cleaning up : Small spills: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spills: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Aniline (62-53-3)	
Canada (Alberta) - Occupational Exposure Limits	
OEL TWA	7.6 mg/m ³
OEL TWA [ppm]	2 ppm
Canada (Quebec) - Occupational Exposure Limits	
VEMP (OEL TWA)	7.6 mg/m ³
VEMP (OEL TWA) [ppm]	2 ppm
Canada (British Columbia) - Occupational Exposure Limits	
OEL TWA [ppm]	2 ppm
Canada (Manitoba) - Occupational Exposure Limits	
OEL TWA [ppm]	2 ppm
Canada (New Brunswick) - Occupational Exposure Limits	
OEL TWA	7.6 mg/m ³
OEL TWA [ppm]	2 ppm
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
OEL TWA [ppm]	2 ppm
Canada (Nova Scotia) - Occupational Exposure Limits	
OEL TWA [ppm]	2 ppm
Canada (Nunavut) - Occupational Exposure Limits	
OEL TWA [ppm]	2 ppm
OEL STEL [ppm]	4 ppm

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Aniline (62-53-3)	
Canada (Northwest Territories) - Occupational Exposure Limits	
OEL TWA [ppm]	2 ppm
OEL STEL [ppm]	4 ppm
Canada (Ontario) - Occupational Exposure Limits	
OEL TWA [ppm]	2 ppm
Canada (Prince Edward Island) - Occupational Exposure Limits	
OEL TWA [ppm]	2 ppm
Canada (Saskatchewan) - Occupational Exposure Limits	
OEL TWA [ppm]	2 ppm
OEL STEL [ppm]	4 ppm
Canada (Yukon) - Occupational Exposure Limits	
OEL TWA	19 mg/m ³
OEL TWA [ppm]	5 ppm
OEL STEL	19 mg/m ³
OEL STEL [ppm]	5 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA [ppm]	2 ppm
ACGIH chemical category	Skin - potential significant contribution to overall exposure by the cutaneous route, Confirmed Animal Carcinogen with Unknown Relevance to Humans
USA - ACGIH - Biological Exposure Indices	
BEI (BLV)	Parameter: Aniline with hydrolysis - Medium: urine - Sampling time: end of shift (nonquantitative) Parameter: Aniline released from hemoglobin - Medium: blood - Sampling time: end of shift (nonquantitative) 50 mg/l Parameter: p-Aminophenol with hydrolysis - Medium: urine - Sampling time: end of shift (background, nonspecific, semi-quantitative)
USA - OSHA - Occupational Exposure Limits	
OSHA PEL (TWA) [1]	19 mg/m ³
OSHA PEL (TWA) [2]	5 ppm
Limit value category (OSHA)	prevent or reduce skin absorption

8.2. Appropriate engineering controls

Appropriate engineering controls : General (mechanical) room ventilation is expected to be satisfactory for normal handling.

8.3. Individual protection measures/Personal protective equipment

Hand protection:
Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

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Eye protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields. Recommended: splash goggles.

Skin and body protection:

Wear suitable working clothes

Respiratory protection:

If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Amber.
Color	: Colorless
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: 0 °C (32°F)
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 124 °C (255.2°F)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: 1.2 kPa (9 mm Hg at 84 - 86°C)
Relative vapor density at 20 °C	: No data available
Relative density	: 0.98
Solubility	: Insoluble
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Explosion limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

Reactivity	: No additional information available
Chemical stability	: The product is stable at normal handling and storage conditions.
Possibility of hazardous reactions	: Will not occur.
Conditions to avoid	: Not determined.
Incompatible materials	: Not determined.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Aniline (62-53-3)	
LD50 oral rat	440 mg/kg
LD50 dermal rat	442 mg/kg
LC50 Inhalation - Rat	1.82 mg/l/4h
ATE CA (oral)	100 mg/kg body weight
ATE CA (Dermal)	442 mg/kg body weight
ATE CA (Gases (except aerosol dispensers and lighters))	700 ppmV/4h
ATE CA (vapors)	1.82 mg/l/4h
ATE CA (dust,mist)	1.82 mg/l/4h

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitization : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified
Carcinogenicity : Suspected of causing cancer.
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

Aniline (62-53-3)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Not classified

Aniline (62-53-3)	
LC50 - Fish [1]	68.4 – 83.4 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 - Fish [2]	40.7 – 59.1 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])
Partition coefficient n-octanol/water (Log Pow)	0.9

12.2. Persistence and degradability

No additional information available

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12.3. Bioaccumulative potential

Aniline (62-53-3)

Partition coefficient n-octanol/water (Log Pow)	0.9
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12.4. Mobility in soil

Aniline (62-53-3)

Partition coefficient n-octanol/water (Log Pow)	0.9
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12.5. Other adverse effects

Ozone : Not classified

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

In accordance with TDG / DOT / IMDG / IATA

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (TDG)	: Not applicable
Proper Shipping Name (DOT)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable

14.3. Transport hazard class(es)

TDG
Transport hazard class(es) (TDG) : Not applicable

DOT
Transport hazard class(es) (DOT) : Not applicable

IMDG
Transport hazard class(es) (IMDG) : Not applicable

IATA
Transport hazard class(es) (IATA) : Not applicable

14.4. Packing group

Packing group (TDG)	: Not applicable
Packing group (DOT)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

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14.6. Special precautions for user

TDG

No data available

DOT

No data available

IMDG

No data available

IATA

No data available

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

Not applicable

SECTION 15: Regulatory information

15.1. Canada National regulations

Aniline (62-53-3)

Listed on the Canadian DSL (Domestic Substances List)

Butanal, reaction products with aniline (68411-20-1)

Listed on the Canadian DSL (Domestic Substances List)

15.2. US Federal regulations

Aniline (62-53-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Butanal, reaction products with aniline (68411-20-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.3. US State regulations

Aniline (62-53-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Aniline (62-53-3)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	No	No	No	100 µg/day

Aniline (62-53-3)

U.S. - Massachusetts - Right To Know List
U.S. - Minnesota - Hazardous Substance List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

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SECTION 16: Other information

Full text of H-phrases:	
H301	Toxic if swallowed
H311	Toxic in contact with skin
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H331	Toxic if inhaled
H341	Suspected of causing genetic defects
H351	Suspected of causing cancer
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure

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.