

SAFETY DATA SHEET

EASTMAN

according to the OSHA Hazard Communication Standard

SFD Acid Blend 202401C

PRD / SDSUS / Z8 / 0001

Version 1.1 Revision Date: 07/16/2024 SDS Number: 150000127574 Date of last issue: 05/03/2024
Date of first issue: 05/03/2024

SECTION 1. IDENTIFICATION

Product name : SFD Acid Blend 202401C
Product code : 44408-00, P4440802, P4440801

Manufacturer or supplier's details

Company name of supplier : Eastman Chemical Company
Address : 200 South Wilcox Drive
Kingsport TN 37660-5147
Telephone : (423) 229-2000
Emergency telephone : CHEMTREC: +1-800-424-9300, +1-703-527-3887 CCN7321

Recommended use of the chemical and restrictions on use

Recommended use : Feed additive.
Restrictions on use : None known.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Combustible dust

Acute toxicity (Oral) : Category 4
Skin irritation : Category 2
Serious eye damage : Category 1
Specific target organ toxicity : Category 1 (Lungs)
- repeated exposure
(Inhalation)

GHS label elements

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : If small particles are generated during further processing,

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handling or by other means, may form combustible dust concentrations in air.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H372 Causes damage to organs (Lungs) through prolonged or repeated exposure if inhaled.

Precautionary Statements

Prevention:

P260 Do not breathe dust.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/ eye protection/ face protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P314 Get medical advice/ attention if you feel unwell.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components

Chemical name	CAS-No.	Concentration (% w/w)
benzoic acid	65-85-0	>= 50 - < 70
formic acid	64-18-6	>= 20 - < 30

Eastman is committed to the safety, health and environment of our employees, our customers, and the communities we operate within. As part of this commitment, Eastman's Safety Data Sheets (SDS) are prepared in accordance with all applicable national and local regulations. The compositions of our documents reflect these requirements which include, but are not limited to, requirements under the Globally Harmonized System of Classification and Labeling (GHS). These compositions commonly involve the use of ranges versus specific analytical values. If you require a composition that is more specific, please refer to the Certificate of Analysis, sales specification, or contact your Customer Service Representative.

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SECTION 4. FIRST AID MEASURES

- | | | |
|---|---|--|
| If inhaled | : | Move to fresh air.
Treat symptomatically.
If symptoms persist, call a physician. |
| In case of skin contact | : | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Wash contaminated clothing before re-use.
Get medical attention.
Thoroughly clean shoes before reuse. |
| In case of eye contact | : | Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/ doctor.

Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/ doctor. |
| If swallowed | : | Seek medical advice. |
| Most important symptoms and effects, both acute and delayed | : | Health injuries may be delayed.
Irritation
Pain
Redness
Harmful if swallowed.
Causes skin irritation.
Causes serious eye damage.
Causes damage to organs through prolonged or repeated exposure if inhaled. |
| Notes to physician | : | Treat symptomatically. |

SECTION 5. FIRE-FIGHTING MEASURES

- | | | |
|---------------------------------------|---|---|
| Suitable extinguishing media | : | Carbon dioxide (CO2)
Dry chemical
Water spray |
| Unsuitable extinguishing media | : | Do not use a solid water stream as it may scatter and spread fire.
Do NOT use water jet. |
| Specific hazards during fire fighting | : | None known.

None known. |
| Hazardous combustion products | : | No hazardous combustion products are known |
| Further information | : | None known. |

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Special protective equipment for fire-fighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Wear appropriate personal protective equipment. Local authorities should be advised if significant spillages cannot be contained.

Environmental precautions : Avoid release to the environment.

Methods and materials for containment and cleaning up : Sweep up or vacuum up spillage and collect in suitable container for disposal. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : None known.

Advice on safe handling : Avoid breathing dust.
Do not get in eyes.
Avoid contact with skin, eyes and clothing.
Do not swallow.
Ensure adequate ventilation.
Wash thoroughly after handling.

Conditions for safe storage : Keep tightly closed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
benzoic acid	65-85-0	TWA (Inhalable fraction and vapor)	0.5 mg/m ³	ACGIH
formic acid	64-18-6	TWA	5 ppm	ACGIH
		STEL	10 ppm	ACGIH
		TWA	5 ppm 9 mg/m ³	NIOSH REL
		TWA	5 ppm 9 mg/m ³	OSHA Z-1
		TWA	5 ppm 9 mg/m ³	OSHA P0

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Engineering measures : Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Hand protection

Remarks : Wear suitable gloves.

Eye protection : Wear safety glasses with side shields (or goggles).
Face-shield
Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.

Protective measures : Remove respiratory and skin/eye protection only after vapors have been cleared from the area.
Ensure that eye flushing systems and safety showers are located close to the working place.
Use personal protective equipment as required.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Amorphous powder

Color : off-white

Odor : characteristic

Odor Threshold : not determined

pH : not determined

Melting point/freezing point : not determined

Boiling point/boiling range : not determined

Flash point : Not applicable

Evaporation rate : not determined

Upper explosion limit / Upper flammability limit : not determined

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Lower explosion limit / Lower flammability limit	:	not determined
Vapor pressure	:	not determined
Relative vapor density	:	not determined
Solubility(ies) Water solubility	:	slightly soluble
Partition coefficient: n-octanol/water	:	No data available
Decomposition temperature	:	not determined
Viscosity Viscosity, dynamic	:	not determined
Viscosity, kinematic	:	not determined
Explosive properties	:	No data available
Oxidizing properties	:	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	None reasonably foreseeable.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Stable None known.
Conditions to avoid	:	None known.
Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	Carbon dioxide (CO ₂) Carbon monoxide

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if swallowed.

Product:

Acute oral toxicity	:	Remarks: Harmful if swallowed.
Acute inhalation toxicity	:	Remarks: No data available

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Acute dermal toxicity : Remarks: No data available

Components:

benzoic acid:

Acute oral toxicity : LD50 Oral (Rat): 2,565 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 12.2 mg/l
Exposure time: 4 h
Remarks: (highest concentration tested)

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2,000 mg/kg
Remarks: (highest dose tested)

formic acid:

Acute oral toxicity : LD50 Oral (Rat): 730 mg/kg

Acute inhalation toxicity : LC50 (Rat): 7.85 mg/l
Exposure time: 4 h
Test atmosphere: vapor

Skin corrosion/irritation

Causes skin irritation.

Product:

Assessment : Causes skin irritation.
Remarks : Read-across from a similar material

Components:

benzoic acid:

Species : Guinea pig
Exposure time : 24 h
Result : slight

formic acid:

Assessment : Corrosive

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks : Causes serious eye damage.

Components:

formic acid:

Assessment : Corrosive

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Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Product:

Remarks : No data available

Components:

benzoic acid:

Test Type : Skin Sensitization
Species : Guinea pig
Result : non-sensitizing

formic acid:

Test Type : Buehler Test
Species : Guinea pig
Assessment : Not classified
Method : OECD Test Guideline 406
Result : Not a skin sensitizer.
GLP : yes

Germ cell mutagenicity

Not classified based on available information.

Components:

benzoic acid:

Genotoxicity in vitro : Test Type: Salmonella typhimurium assay (Ames test)
Metabolic activation: +/- activation
Method: Bacterial Reverse Mutation Assay
Result: negative

Metabolic activation: +/- activation
Method: In vitro Mammalian Chromosome Aberration Test
Result: negative

Genotoxicity in vivo : Species: Rat
Application Route: oral: gavage
Method: Mammalian Bone Marrow Chromosome Aberration Test
Result: negative
Remarks: Read-across from a similar material

Test Type: Mutagenicity
Species: Rat
Application Route: oral: gavage
Method: Genetic Toxicology: Rodent Dominant Lethal Test
Result: negative

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Remarks: Read-across from a similar material

formic acid:

Genotoxicity in vitro : Result: negative
In vitro tests did not show mutagenic effects

Genotoxicity in vivo : Result: negative, In vivo tests did not show mutagenic effects

Carcinogenicity

Not classified based on available information.

Product:

Remarks : This information is not available.

Components:

formic acid:

Result : Did not show carcinogenic effects in animal experiments.
Test substance : Read-across (Analogy)

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Product:

Effects on fertility : Remarks: No data available

Components:

formic acid:

Effects on fetal development : Remarks: Did not show teratogenic effects in animal experiments.
Read-across (Analogy)

STOT-single exposure

Not classified based on available information.

Product:

Remarks : No data available

STOT-repeated exposure

Causes damage to organs (Lungs) through prolonged or repeated exposure if inhaled.

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Product:

Routes of exposure : Inhalation
Target Organs : Lungs
Assessment : Causes damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

Product:

Remarks : No data available

Components:

benzoic acid:

Species : Rat
NOAEL : 1,000 mg/kg
Application Route : in feed
Exposure time : > 90 d

Species : Rabbit
NOAEL : 2,500 mg/kg
Application Route : Dermal
Exposure time : 21 d

Species : Rat
NOAEL : 0.25 mg/l
Application Route : Inhalation
Exposure time : 20 d

formic acid:

Species : Rat
NOAEL : 142 mg/kg
Application Route : Oral
Method : OECD Test No. 453: Combined Chronic Toxicity/Carcinogenicity Studies
Test substance : Read-across (Analogy)
Remarks : calculated

Species : Rat
NOAEC 0.122 mg/l
Application Route : Inhalation
Method : OECD Test Guideline 413
Remarks : Local

Species : Rat
NOAEC 0.244 mg/l
Application Route : Inhalation
Method : OECD Test Guideline 413
Remarks : Systemic toxicity

Aspiration toxicity

Not classified based on available information.

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Product:

No aspiration toxicity classification

Experience with human exposure

Product:

Inhalation : Remarks: Causes damage to organs through prolonged or repeated exposure.

Skin contact : Remarks: Causes skin irritation.

Eye contact : Remarks: Causes serious eye damage.

Ingestion : Remarks: Harmful if swallowed.

Further information

Product:

Remarks : None known.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

benzoic acid:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 44.6 mg/l
Exposure time: 96 h

LC50 (Oncorhynchus mykiss (rainbow trout)): 47.3 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (algae)): > 33.1 mg/l
Exposure time: 72 h
Test Type: Growth inhibition

NOEC: (Chlorella pyrenoidosa): 3.4 mg/l
Exposure time: 72 h

Toxicity to fish (Chronic toxicity) : NOEC: (Oncorhynchus mykiss (rainbow trout)): > 120 mg/l

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: (Daphnia magna (Water flea)): > 25 mg/l
Exposure time: 21 d

formic acid:

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Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): 130 mg/l Exposure time: 96 h Test substance: Read-across (Analogy) Method: OECD Test Guideline 203 Remarks: Fresh water
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 365 mg/l Exposure time: 48 h Test substance: Read-across (Analogy) Method: OECD Test Guideline 202 Remarks: Fresh water
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (algae)): 1,240 mg/l Exposure time: 72 h Test substance: Read-across (Analogy) Method: OECD Test Guideline 201 Remarks: Fresh water

Persistence and degradability

Components:

benzoic acid:

Biodegradability	:	Concentration: 50 mg/l Result: Readily biodegradable Biodegradation: 89.5 % Exposure time: 35 d
------------------	---	--

formic acid:

Biodegradability	:	Result: Readily biodegradable, according to appropriate OECD test.
------------------	---	--

Bioaccumulative potential

Components:

benzoic acid:

Bioaccumulation	:	Remarks: Does not accumulate in organisms.
-----------------	---	--

formic acid:

Bioaccumulation	:	Bioconcentration factor (BCF): 3.2 Remarks: Does not bioaccumulate.
-----------------	---	--

Partition coefficient: n-octanol/water	:	log Pow: -2.1 (73 °F / 23 °C) pH: 7
--	---	--

Mobility in soil

No data available

Other adverse effects

No data available

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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with local regulations.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

Domestic regulation

49 CFR

Not regulated as a dangerous good

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
benzoic acid	65-85-0	5000	10000
formic acid	64-18-6	5000	19569

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards

: Combustible dust
Serious eye damage or eye irritation
Specific target organ toxicity (single or repeated exposure)
Acute toxicity (any route of exposure)
Skin corrosion or irritation

SARA 313

: The following components are subject to reporting levels established by SARA Title III, Section 313:

formic acid 64-18-6

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California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:

- TCSI : On the inventory, or in compliance with the inventory
- TSCA : All substances listed as active on the TSCA inventory
- AIC : On the inventory, or in compliance with the inventory
- DSL : All components of this product are on the Canadian DSL
- ENCS : On the inventory, or in compliance with the inventory
- KECI : On the inventory, or in compliance with the inventory
- PICCS : On the inventory, or in compliance with the inventory
- IECSC : On the inventory, or in compliance with the inventory

TSCA list

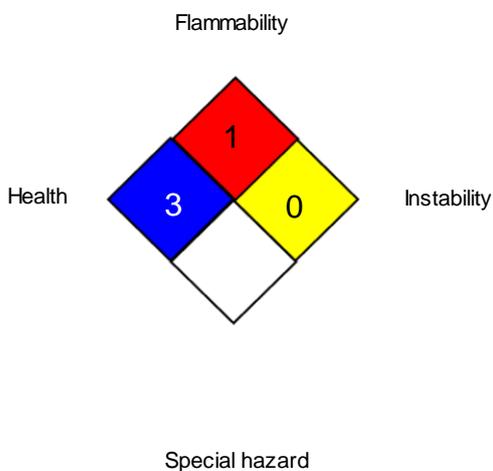
No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV:

HEALTH	/	3
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

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ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA P0 / TWA	:	8-hour time weighted average
OSHA Z-1 / TWA	:	8-hour time weighted average

AllC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; IECSC - 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; 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

Revision Date : 07/16/2024

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific

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material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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