

Safety Data Sheet

Printing date 01/13/2017



Revised On 01/11/2017

1 Identification of the substance and manufacturer

Product name: FOUR COAT
Product code: 120620 SAFETY YELLOW
Product category: Paints and coatings.
Manufacturer/Supplier: Beaver Research Company
 3700 E. Kilgore Rd.
 Phone: 815-895-9101
www.beaverresearch.com
Emergency telephone number: INFOTRAC (24 HRS) #1-800-535-5053 (USA), 1-352-323-3500 (International).

2 Hazard(s) identification

Classification of the substance or mixture

Flam. Aerosol 1 H222 Extremely flammable aerosol.
 Press. Gas H280 Contains gas under pressure; may explode if heated.
 Eye Irrit. 2A H319 Causes serious eye irritation.
 STOT SE 3 H336 May cause drowsiness or dizziness.
 STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

GHS Hazard pictograms:



GHS02 GHS04 GHS07 GHS08

Signal word

Hazard statements

Precautionary statements

Danger
 Extremely flammable aerosol.
 Contains gas under pressure; may explode if heated.
 Causes serious eye irritation.
 May cause drowsiness or dizziness.
 May cause damage to organs through prolonged or repeated exposure.
 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 Do not spray on an open flame or other ignition source.
 Do not pierce or burn, even after use.
 Wash hands thoroughly after handling.
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves/protective clothing/eye protection/face protection.
 Do not breathe dust/fume/gas/mist/vapors/spray.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 Call a POISON CENTER/doctor if you feel unwell.
 If eye irritation persists: Get medical advice/attention.
 Store locked up.
 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
 Protect from sunlight. Store in a well-ventilated place.
 Store in a well-ventilated place. Keep container tightly closed.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition/information on ingredients

Chemical characterization: Mixtures

Chemical Description:

This product is a mixture of the substances listed below with nonhazardous additions.

Dangerous components:

67-64-1	Acetone	21.58%
74-98-6	propane	15.75%
106-97-8	n-butane	9.25%
7727-43-7	barium sulfate, natural	9.17%
2807-30-9	Glycol Ether EP	6.88%
110-19-0	Isobutyl Acetate	6.82%
123-86-4	n-butyl acetate	3.78%
108-65-6	PM acetate	1.89%
107-87-9	Methyl Propyl Ketone	1.47%

4 First-aid measures

After inhalation:

After skin contact:

After eye contact:

After swallowing:

Most important symptoms and effects:

Indication of any immediate medical attention needed:

Seek medical treatment in case of complaints.
 Supply fresh air; consult doctor in case of complaints.
 Remove contaminated clothing. Wash exposed area with soap and water.
 Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
 Rinse out mouth and then drink plenty of water.
 Rinse mouth with water. Do not induce vomiting.
 Dizziness
 No further relevant information available.

5 Fire-fighting measures

Extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray.

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Special hazards:	Can form explosive gas-air mixtures.	
Protective equipment for firefighters:	A respiratory protective device may be necessary.	
6 Accidental release measures		
Personal precautions, protective equipment and emergency procedures:	Use respiratory protective device against the effects of fumes/dust/aerosol.	
Methods and material for containment and cleaning up:	Ensure adequate ventilation.	
7 Handling and storage		
Precautions for safe handling	Use only in well ventilated areas.	
Storage requirements:	Keep away from sources of heat and direct sunlight. conditions. Store locked up.	Do not warehouse in subfreezing
8 Exposure controls/personal protection		
Components with limit values that require monitoring at the workplace:		
67-64-1 Acetone		
PEL (USA)	Long-term value: 2400 mg/m ³ , 1000 ppm	
REL (USA)	Long-term value: 590 mg/m ³ , 250 ppm	
TLV (USA)	Short-term value: 1187 mg/m ³ , 500 ppm Long-term value: 594 mg/m ³ , 250 ppm ppm BEI	
74-98-6 propane		
PEL (USA)	Long-term value: 1800 mg/m ³ , 1000 ppm	
REL (USA)	Long-term value: 1800 mg/m ³ , 1000 ppm	
TLV (USA)	refer to Appendix F in TLVs&BEIs book; NIC-EX	
106-97-8 n-butane		
REL (USA)	Long-term value: 1900 mg/m ³ , 800 ppm	
TLV (USA)	Short-term value: (2370) mg/m ³ , (1000) ppm NIC-EX	
7727-43-7 barium sulfate, natural		
PEL (USA)	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction	
REL (USA)	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction	
TLV (USA)	Long-term value: 5* mg/m ³ *inhalable fraction; E	
110-19-0 Isobutyl Acetate		
PEL (USA)	Long-term value: 700 mg/m ³ , 150 ppm	
REL (USA)	Long-term value: 700 mg/m ³ , 150 ppm	
TLV (USA)	Short-term value: 172 mg/m ³ , 150 ppm Long-term value: 238 mg/m ³ , 50 ppm	
123-86-4 n-butyl acetate		
PEL (USA)	Long-term value: 710 mg/m ³ , 150 ppm	
REL (USA)	Short-term value: 950 mg/m ³ , 200 ppm Long-term value: 710 mg/m ³ , 150 ppm	
TLV (USA)	Short-term value: 712 mg/m ³ , 150 ppm Long-term value: 238 mg/m ³ , 50 ppm	
108-65-6 PM acetate		
WEEL (USA)	Long-term value: 50 ppm	
107-87-9 Methyl Propyl Ketone		
PEL (USA)	Long-term value: 700 mg/m ³ , 200 ppm	
REL (USA)	Long-term value: 530 mg/m ³ , 150 ppm	
TLV (USA)	Short-term value: 529 mg/m ³ , 150 ppm	
Ingredients with biological limit values:		
67-64-1 Acetone		
BEI (USA)	50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)	
Hygienic protection:	Immediately remove all soiled and contaminated clothing. Wash hands after use. Avoid contact with the eyes and skin. Do not eat or drink while working.	
Breathing equipment:	A respirator is generally not necessary when using this product outdoors or in large open areas. In cases where short and/or long term overexposure exists, a charcoal filter respirator should be worn. If you suspect overexposure conditions exist, please consult an authority on chemical hygiene.	
Hand protection:	Nitrile gloves. Protective gloves. The glove material must be impermeable and resistant to the substance.	

Eye protection: Tightly sealed goggles

9 Physical and chemical properties

Appearance: Aerosol.
 Odor: Aromatic
 Odor threshold: Not determined.
 pH-value: Not determined.
 Melting point/Melting range: Undetermined.
 Boiling point: -44 °C (-47 °F)
 Flash point: -19 °C (-2 °F)
 Flammability (solid, gas): Extremely flammable.
 Decomposition temperature: Not determined.
 Auto igniting: Product is not self-igniting.
 Danger of explosion: In use, may form flammable/explosive vapour-air mixture.
 Lower Explosion Limit: 1.7 Vol %
 Upper Explosion Limit: 10.9 Vol %
 Vapor pressure: Not determined.
 Relative Density: Between 0.77 and 0.85 (Water equals 1.00)
 Vapor density: Not determined.
 Evaporation rate: Not applicable.
 Partition coefficient: n-octanol/water: Not determined.
 Solubility: Not determined.
 Viscosity: Not determined.
 Solids content: 30.2 %

10 Stability and reactivity

Reactivity: Stable at normal temperatures.
 Conditions to avoid: Do not allow can to exceed 120 degrees Fahrenheit. Do not warehouse in subfreezing temperatures.
 Chemical stability: Not fully evaluated.
 Possibility of hazardous reactions: No dangerous reactions known.
 Incompatible materials: No further relevant information available.
 Hazardous decomposition: No dangerous decomposition products known.

11 Toxicological information

LD/LC50 values that are relevant for classification:

106-97-8 n-butane

Inhalative LC50/4 h 658 mg/l (rat)

110-19-0 Isobutyl Acetate

Oral LD50 4763 mg/kg (rbt)

123-86-4 n-butyl acetate

Oral LD50 14000 mg/kg (rat)

Inhalative LC50/4 h >21.0 mg/l (rat)

108-65-6 PM acetate

Oral LD50 8500 mg/kg (rat)

Inhalative LC50/4 h 35.7 mg/l (rat)

Information on toxicological effects: No data available.

Skin effects: No irritant effect.

Eye effects: Irritating effect.

Sensitization: No sensitizing effects known.

12 Ecological information

Aquatic toxicity: Hazardous for water, do not empty into drains.
 Persistence and degradability: The product is degradable after prolonged exposure to natural weathering processes.
 Bioaccumulative potential: No further relevant information available.
 Mobility in soil: No further relevant information available.
 Other adverse effects: No further relevant information available.

13 Disposal considerations

Dispose of in accordance with local, state, and federal regulations. Do not puncture, incinerate, or compact. Partially empty cans must be disposed of responsibly. Do not heat or cut empty containers with electric or gas torches.
 Recommendation: Completely empty cans should be recycled.

14 Transport information

UN-Number UN1950
 DOT N/A
 DOT Consumer Commodity ORM-D
 ADR Aerosols, flammable
 1950 Aerosols

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Transport hazard class(es):	2.1
Class	No
Marine pollutant:	Warning: Gases
Special precautions for user:	F-D,S-U
EMS Number:	SW1 Protected from sources of heat.
Stowage Code	SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.
Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
Quantity limitations	On passenger aircraft/rail: 75 kg On cargo aircraft only: 150 kg
ADR	
Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
Packaging Group:	--
UN "Model Regulation":	UN 1950 AEROSOLS, 2.1

15 Regulatory information

SARA Section 355 (extremely hazardous substances):

None of the ingredients in this product are listed.

SARA Section 313 (Specific toxic chemical listings):

7727-43-7 barium sulfate, natural

TSCA:

All ingredients are listed.

CPSC:

This product complies with 16 CFR 1303 and does not contain more than 90 ppm of lead.

California Proposition 65 chemicals known to cause cancer:

108-10-1 methyl isobutyl ketone

1333-86-4 Carbon black

100-41-4 ethyl benzene

CANADIAN ENVIRONMENTAL

PROTECTION ACT:

WHMIS Symbols for Canada:

All hazardous ingredients for this product appear on the Canadian Domestic Substance List.

A - Compressed gas

D2B - Toxic material causing other toxic effects

EPA:

67-64-1 Acetone

I

7727-43-7 barium sulfate, natural

D, CBD(inh), NL(oral)

110-19-0 Isobutyl Acetate

D

USDA (United States Department of Agriculture):

Category 21: This product was manufactured to conform to the USDA Food Safety and Inspection Service performance standards. These standards include, but are not limited to, the ability of this product to be safe for use in official meat and poultry establishments, and to perform well under a daily regimen of thorough cleaning, cyclical temperature change, and wet conditions. This product may be used where there is a possibility of incidental food contact.

16 Other information

Date of preparation / last revision 01/13/2017