

# Firmenich

## GHS Safety Data Sheet - US

According to Regulation HCS 2012

This Safety Data Sheet cancels and replaces all preceding SDS for this product.

### **1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

#### 1.1 Product identifier

**624500 706AS16**  
BANG BANG  
© Firmenich product

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

Fragrance ingredient for use in consumer products.  
Alcohol solution of a fragrance compound.  
Intended to be used in the manufacture of products for consumers

#### 1.3 Details of the supplier of the safety data sheet

Firmenich Incorporated  
250 Plainsboro Road  
Princeton  
New Jersey 08536  
USA  
Tel: +1 609 452 10 00

PSRA.Fragrance.Firinc@firmenich.com

#### 1.4 Emergency telephone number

FOR INFORMATION OR IN AN EMERGENCY CALL NCEC @ +1 866 928 0789 (TOLL FREE) OR +1 215 207 0061.

### **2 HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture

According to Regulation HCS 2012

Flammable Liquid - Cat. 2	H225
Skin Sensitization - Cat. 1	H317
Eye Irritation - Cat.2A	H319
Reproductive Toxicity - Cat. 2	H361
Environmental Hazard (chronic) - Cat. 3	H412

#### Additional information

Full text of listed statements : See section 16

#### 2.2 Label elements

**Hazard pictograms:**

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### Signal Word:

Danger

### Hazard Statements:

H225 Highly flammable liquid and vapour.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H361 Suspected of damaging fertility or the unborn child.  
H412 Harmful to aquatic life with long lasting effects.

### Precautionary Statements:

P201 Obtain special instructions before use.  
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P303+P361+P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

### 2.3 Other hazards

No data available at this time.

## 3 COMPOSITION/INFORMATION ON INGREDIENTS

The exact percentage (concentration) of composition has been withheld as a trade secret.

### 3.2 Mixture

Mixture of aromatic substances.

#### Contains :

>= 70.0 < 80.0%

Ethanol

N° CAS : 0000064-17-5

N° EINECS: 200-578-6

N° EU REACH: 01-2119457610-43

#### GHS Classification:

Eye Irritation - Cat.2A [H319]

Flammable Liquid - Cat. 2 [H225]

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>= 1.0 < 2.5%  
Acetic Acid, (1-Oxopropoxy)-, 1-(3,3-Dimethylcyclohexyl) Ethyl Ester  
N° CAS : 0236391-76-7  
N° ELINCS: 431-700-8  
N° EU REACH: 01-0000017792-64  
Environmental Hazard (chronic) - Cat. 2 [H411]

>= 1.0 < 2.5%  
Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)-  
N° CAS : 0054464-57-2  
N° ELINCS: --  
N° EU REACH: 01-2119489989-04  
Skin Sensitization - Cat. 1B [H317]  
Skin Irritation - Cat. 2 [H315]  
Environmental Hazard (chronic) - Cat. 1 [H410]

>= 0.5 < 1.0%  
Linalool  
N° CAS : 0000078-70-6  
N° EINECS: 201-134-4  
N° EU REACH: 01-2119474016-42  
Skin Sensitization - Cat. 1B [H317]  
Skin Irritation - Cat. 2 [H315]  
Eye Irritation - Cat.2A [H319]  
Flammable Liquid - Cat. 4 [H227]

>= 0.5 < 1.0%  
Octanal, 7-Hydroxy-3,7-Dimethyl-  
N° CAS : 0000107-75-5  
N° EINECS: 203-518-7  
Skin Sensitization - Cat. 1B [H317]  
Eye Irritation - Cat.2A [H319]

>= 0.5 < 1.0%  
Benzyl Salicylate  
N° CAS : 0000118-58-1  
N° EINECS: 204-262-9  
N° EU REACH: 01-2119969442-31  
Skin Sensitization - Cat. 1B [H317]  
Eye Irritation - Cat.2B [H320]  
Environmental Hazard (chronic) - Cat. 3 [H412]

>= 0.1 < 0.5%  
1,6-Octadien-3-Ol, 3,7-Dimethyl-, 3-Acetate  
N° CAS : 0000115-95-7  
N° EINECS: 204-116-4  
N° EU REACH: 01-2119454789-19  
Skin Sensitization - Cat. 1B [H317]  
Skin Irritation - Cat. 2 [H315]  
Eye Irritation - Cat.2B [H320]  
Flammable Liquid - Cat. 4 [H227]

>= 0.1 < 0.5%  
Ethyl Linalool  
N° CAS : 0010339-55-6  
N° EINECS: 233-732-6  
N° EU REACH: 01-2119969272-32  
Skin Sensitization - Cat. 1B [H317]  
Eye Irritation - Cat.2A [H319]  
Flammable Liquid - Cat. 4 [H227]

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>= 0.1 < 0.5%

Limonene

N° CAS : 0000138-86-3

N° EINECS: 227-813-5

Aspiration Hazard - Cat. 1 [H304]

Skin Sensitization - Cat. 1B [H317]

Skin Irritation - Cat. 2 [H315]

Environmental Hazard (acute) - Cat. 1 [H400]

Environmental Hazard (chronic) - Cat. 3 [H412]

Flammable Liquid - Cat. 3 [H226]

>= 0.1 < 0.5%

2,6-Octadien-1-ol, 3,7-Dimethyl-, Acetate, (E)-

N° CAS : 0000105-87-3

N° EINECS: 203-341-5

N° EU REACH: 01-2119973480-35

Skin Sensitization - Cat. 1B [H317]

Skin Irritation - Cat. 2 [H315]

Environmental Hazard (chronic) - Cat. 3 [H412]

>= 0.1 < 0.5%

1,3-Benzodioxole-5-Propanal, .Alpha.-Methyl-

N° CAS : 0001205-17-0

N° EINECS: 214-881-6

N° EU REACH: 01-2120740119-58

Reproductive Toxicity - Cat. 2 [H361]

Skin Sensitization - Cat. 1B [H317]

Environmental Hazard (chronic) - Cat. 2 [H411]

>= 0.1 < 0.5%

Santalol

N° CAS : 0011031-45-1

N° EINECS: 234-262-4

Skin Sensitization - Cat. 1B [H317]

>= 0.1 < 0.5%

(+)-(1s, 2s, 3s, 5r)-2,6,6-

Trimethylbicyclo[3.1.1]Heptane-3-Spiro-1'-(Cyclohex-2'-En-4'-One)

N° CAS : 0133636-82-5

N° ELINCS: 430-460-1

N° EU REACH: 01-0000017672-68

Skin Corrosion - Cat. 1B [H314]

Eye Damage - Cat.1 [H318]

Skin Sensitization - Cat. 1B [H317]

Environmental Hazard (acute) - Cat. 1 [H400]

Environmental Hazard (chronic) - Cat. 1 [H410]

>= 0.1 < 0.5%

Cyclohexanemethanol, 4-(1-Methylethyl)-, Cis-

N° CAS : 0013828-37-0

N° ELINCS: --

N° EU REACH: 01-2119983532-32

Skin Sensitization - Cat. 1B [H317]

Skin Irritation - Cat. 2 [H315]

## 4 FIRST-AID MEASURES

### 4.1 Description of first aid measures

General information:

As in all cases of potential poisoning, Obtain medical advice immediately.

In case of eye contact:

In the event of contact with the eyes, irrigate with water for at least 15 minutes; obtain medical advice if irritation persists.

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### In case of inhalation:

In the event of exposure to vapors, immediately remove from the area to a fresh air environment. Individuals showing evidence of inhalation exposure should be taken to an uncontaminated area. Obtain medical advice immediately.

### In case of skin contact:

Remove contaminated clothes. Wash skin with large volumes of water. If irritation persists, or any sign of tissue damage is apparent, obtain medical advice immediately.

### In case of ingestion:

In the event of accidental ingestion, rinse mouth with water. Give up to one tumbler (half pint) of milk or water. Obtain medical advice immediately. Do not induce vomiting, obtain medical advice immediately.

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

No information available on the product itself.

#### 4.3 Indication of immediate medical attention and special treatment needed

None known.

## **5 FIRE-FIGHTING MEASURES**

### 5.1 Extinguishing media

In the event of fire, adequate extinguishers should be used. Avoid inhalation of smoke and fumes. In case of insufficient ventilation, wear suitable respiratory equipment. Cool fire exposed containers with water spray. Extinguishing media: Foam, carbon dioxide or dry chemical.

### 5.2 Special hazard arising from the substance or mixture

Closed containers may build up pressure if exposed to heat (fire). Vapors form explosive mixtures with air and may travel to a source of ignition and flash back.

### 5.3 Advice for fire-fighters

No specific advice.

## **6 ACCIDENTAL RELEASE MEASURES**

### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Impervious gloves should be worn when handling spillages. No smoking. Avoid naked flames or other potential sources of ignition (eg. electrical equipment). Avoid skin contamination and inhalation of vapour. Individual washing routines should be followed after any potential contact. Ensure adequate ventilation in working areas following accidental releases.

For emergency personnel:

Apply the same recommendations as section 6.1

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### 6.2 Environmental precautions

Do not discharge directly into drains, air, into soil or into the aquatic environment.

### 6.3 Methods and material for containment and cleaning up

For containment:

Eliminate all sources of ignition. Leaking containers should be removed to a well ventilated area if possible to do safely. If not, dike around container to limit spread of spill, leak. If spill/leak is small, clean up with standard absorbents (sand, vermiculite, etc.). Wear rubber gloves. Avoid contact with skin. If skin contact occurs, wash liberally with soap and water. See Section VI above. If large leak/spill, call HAZMAT Team.

Vapors may cause vomiting and nausea. In case of insufficient ventilation, wear appropriate respiratory protection.

For cleaning-up:

Spillages should be disposed of in accordance with Governmental Regulations.

## **7 HANDLING AND STORAGE**

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes.

Wear impervious gloves protection and eye/face protection.

No smoking. Avoid any sources of ignition.

Avoid exposing to high temperature during processing.

Do not ingest or apply to the skin as such. Good personal washing routines should be followed.

Maintain adequate local and general ventilation where product is handled.

### Protective measures

Keep strict control of dust accumulation to a minimum. Maintain adequate local and general ventilation where product is handled. Avoid any sources of ignition.

### Advice on general occupational hygiene

Good personal washing routines should be followed.

### 7.2 Conditions for safe storage, including any incompatibilities

It is good general practice to store in closed, preferably full, containers away from heat sources, and protected from extremes of temperature. Do not re-use the empty container.

Respect general rules for compatibility storage.

### 7.3 Specific end use(s)

Not available at this time.

## **8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

### 8.1 Control parameters

0000064-17-5 : ETHYL ALCOHOL

US NIOSH Pocket Guide to Chemical Hazards Data

US. NIOSH: Pocket Guide to Chemical Hazards, as amended

Occupational Exposure Limit data. Recommended exposure limit (REL): 1000 ppm

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## GHS Safety Data Sheet - US

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Occupational Exposure Limit data. Recommended exposure limit (REL): 1900 mg/m<sup>3</sup>

0000064-17-5 : ETHYL ALCOHOL

US OSHA Table Z-1 Data

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Occupational Exposure Limit data. Permissible exposure limit: 1000 ppm

Occupational Exposure Limit data. Permissible exposure limit: 1900 mg/m<sup>3</sup>

0000064-17-5 : ETHYL ALCOHOL

US OSHA Table Z-1-A Data

US. OSHA Table Z-1-A (29 CFR 1910.1000)

Occupational Exposure Limit data. Time Weighted Average (TWA): 1000 ppm

Occupational Exposure Limit data. Time Weighted Average (TWA): 1900 mg/m<sup>3</sup>

0000064-17-5 : Ethanol

US ACGIH Threshold Limit Values Data

US. ACGIH Threshold Limit Values, as amended

Occupational Exposure Limit data. Short Term Exposure Limit (STEL): 1000 ppm

### Derived No Effect Level (DNEL)

No data available

### Predicted No Effect Concentration (PNEC)

No data available

### 8.2 Exposure controls

Avoid exposing to high temperature during processing.

Maintain adequate local and general ventilation where product is handled.

### Appropriate engineering controls

Maintain adequate local and general ventilation where product is handled and dispensed.

### Environmental exposure controls

Not available at this time. Minimize release to the environment.

### Personal protection

Respiratory protection: Breathing of the vapors or dust particles may be hazardous. In the absence of appropriate engineering controls such as spot ventilation, ventilated enclosures, etc., workers should avail themselves of the appropriate NIOSH approved respiratory protection.

Hand protection: Adequate and Impervious Protective Gloves should be worn.

Eye protection: Adequate safety glasses should be used.

Skin protection: Wear protective clothing, overall if necessary to limit the odour contamination of personal clothing. Individual washing routines should be followed after any potential contact.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

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Appearance :	LIQUID
Colour :	COLOURLESS TO VERY PALE YELLOW
Odour :	Characteristic strong odour according to the commercial description of the substance.
pH :	Not available
Melting point/range (°C) :	Not available
Initial boiling point/range (°C) :	> 40°C
Flash point (closed cup) :	= 66 Fahrenheit (= 19 Centigrade)
Evaporation rate :	Not available
Flammability (solid/gas) :	Not applicable
Upper/lower flammability or explosive limits :	N/A
Vapor pressure (At 20°C in mm Hg) :	
Calculated vapor pressure (At 20°C in mm Hg):	110.8
Vapour density :	Not available
Relative density (d 20/20) :	0.842 - 0.852
Water solubility (20°C) :	Not applicable
Partition coef. (n-octanol/water) :	Not applicable
Auto-ignition temperature (°C):	Not available
Decomposition temperature :	Not available
Viscosity :	Not available
Explosive properties :	Not available
Oxidizing properties :	Not available

### 9.2 Other safety information

None

## **10 STABILITY AND REACTIVITY**

### 10.1 Reactivity

No reaction known with water.

### 10.2 Chemical stability

Presents no significant reactivity hazard. Normally stable even at elevated temperatures and pressures. Avoid temperatures above or near to the flash point. Not pyrophoric nor reactive with water. Does not undergo explosive decomposition, is shock stable, and is not an oxygen donor. Does not form explosive mixtures with other organic materials. Will not undergo hazardous exothermic polymerization.

### 10.3 Possibility of hazardous reactions

Not known.

### 10.4 Conditions to avoid

Avoid temperatures above or at least 5 °C below flash point for any flammable liquids.  
Do not heat closed containers.  
Avoid contact with oxidizing agents.

### 10.5 Incompatible materials

Avoid strong oxidizing agents.



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### 10.6 Hazardous decomposition products

Contact with water or storage under recommended conditions for one year should not produce dangerous decomposition products.

## **11 TOXICOLOGICAL INFORMATION**

### **11.1 Information on toxicological effects**

This mixture has not been subjected to toxicological testing as an entity. According to available data on the constituents the health classification criteria are met.

(a) acute toxicity

Calculated LD50 Oral: LD50 > 2000 mg/kg bw

(b) skin corrosion/irritation

Not applicable

(c) serious eye damage/irritation

Eye Irritation - Cat.2A

(d) respiratory or skin sensitisation

Skin Sensitization - Cat. 1

(e) germ cell mutagenicity

Not applicable

(f) carcinogenicity

Not applicable

(g) reproductive toxicity

Reproductive Toxicity - Cat. 2

(h) STOT-single exposure

Not applicable

(i) STOT-repeated exposure

Not applicable

(j) aspiration hazard

Not applicable

## **12 ECOLOGICAL INFORMATION**

This mixture has not been subjected to ecotoxicological testing as an entity. According to available data on the constituents the environmental classification criteria are met.

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12.1 Toxicity  
Environmental Hazard (chronic) - Cat. 3

12.2 Persistence and degradability  
No data available

12.3 Bioaccumulative potential  
No data available

12.4 Mobility in soil  
No data available

12.5 Results of PBT and vPvB assessment  
Not applicable

12.6 Other adverse effects  
No data available

### **13 DISPOSAL CONSIDERATIONS**

#### **13.1 Waste treatment methods**

Product: The product should be handled according to the instructions given under sections 6, 7 and 8. Dispose of according to local or national regulations. The product should not be allowed to enter drains or the environment.

Contaminated packaging: Empty packaging should be disposed according to local or national regulations by an approved waste handling

### **14 TRANSPORT INFORMATION**

In case of accidental spillage or fire during transport, refer to instructions given under points 5, 6, 7 and 8 above.

#### UNO

UN-No:	1169
Proper Shipping Name:	Extracts, aromatic, liquid
Class:	3
Packing Group:	II

#### Land transport (ADR/RID)

UN-No:	1169
Proper Shipping Name:	EXTRACTS, AROMATIC, LIQUID (VAPOUR PRESSURE AT 50°C MORE THAN 110 KPA)
Class:	3
Packing group:	II

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### Sea transport (IMDG-Code)

UN-No: 1169  
Proper Shipping Name: EXTRACTS, AROMATIC, LIQUID  
Class: 3  
Packing group: II

### Air transport (ICAO-IATA)

UN-No: 1169  
Proper Shipping Name: Extracts, aromatic, liquid  
Class: 3  
Packing group: II

## **15 REGULATORY INFORMATION**

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

This mixture contains no toxic chemical or chemicals subject to reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 29 CFR Part 1910.1200.

### 15.2 Chemical Safety Assessment

No data available at this time.

## **16 OTHER INFORMATION**

### Revisions

February-2022 : Version 11 - Updates to sections 1, 2, 3 ,8 ,9, 11, 12, 14, 15, 16

### Key literature references

RIFM database  
OECD SIDS  
EU IUCLID  
Supplier information

### Full text of phrases used under section 2

H225	Highly flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child.
H412	Harmful to aquatic life with long lasting effects.
P201	Obtain special instructions before use.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.

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P273	Avoid release to the environment.
P202	Do not handle until all safety precautions have been read and understood.
P272	Contaminated work clothing should not be allowed out of the workplace.
P240	Ground/bond container and receiving equipment.
P241	Use rated explosion-proof electrical equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P370+P378	In case of fire: Use appropriate fire extinguishers for fire control.
P391	Collect spillage.
P363	Wash contaminated clothing before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P235	Keep cool.
P308	IF exposed or concerned:
P337	IF eye irritation persists:

### Full text of phrases used under section 3

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H227	Combustible liquid
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and the conditions of use of the product are not within the control of Firmenich, it is the user's obligation to determine conditions of safe use of the product.**

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