



Safety Data Sheet

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product Identification

Name **NEW FOUNTAIN CANDLE**

Article code **23034**

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

Use of the substance/mixture: **Fireworks for decoration purposes**

1.3 Details of the supplier of the Safety Data Sheet

Moddecor Italiana S.r.l.
Via G. Maggi, 2 -21030 Cuvio (Va) -Italy
tel.: +39 0332 658311
fax.:+39 0332 651135
e-mail: moddecor@moddecor.it

1.4. Emergency telephone number

For urgent inquiries, please contact

Poison Centre (available 24h):

Pavia 0382/24444;
Milan 02/66101029
Bergamo 800/883300
Florence 055/7947819
Rome Gemelli 06/3054343
Rome Umberto I 06/491178000
Naples 081/7472870
Foggia 0881/732326

SECTION 2. Hazards Identification

2.1 Classification of the substance or mixture

This article contains dangerous substances or preparations not intended to be released under normal or reasonably foreseeable conditions of use.

The product is classified as hazardous pursuant to the provisions set forth in Regulation (EC) No. 1272/2008 (CLP) (and subsequent amendments and alterations). The product thus requires a safety data sheet that complies with the provisions of Regulation (EC) No. 1907/2006 and subsequent amendments. Further information on health and/or environmental hazards is provided in sections 11 and 12 of this sheet. It is forbidden to tamper with the article or take it apart.

2.1.1. Regulation 1272/2008 (CLP) and subsequent amendments and alterations

Hazard classification and indications:

Expl. 1.3	H203
Acute Tox. 4	H302
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

2.1.2 Directives 67/548/EEC and 1999/45/EC and subsequent amendments and alterations

Hazard symbols:

E-Xn-N

R phrases:

2-22-50/53

For the full text of Risk (R) and Hazard (H) phrases see section 16 of this sheet.

2.2 Label elements

Explosives marketed to produce an explosive or pyrotechnic effect are labelled and packaged in accordance with the provisions regarding explosives (cfr. 1.3.5 Reg. CLP).

Hazard labelling under Regulation (EC) No. 1272/2008 (CLP) and subsequent amendments and alterations.



Code: Warning

H204	Fire or projection hazard.
P210	Keep away from heat, sparks, open flames and hot surfaces. No smoking.
P250	Handle carefully, avoiding impact, abrasion, cutting and friction.
P370+P380	In the event of fire, evacuate the area.
P372	Risk of explosion in the event of fire.
P373	Do not use extinguishing agents if the fire reaches explosive materials.
P401	Store in a dry place.
P501	Dispose of through authority facilities or pass to chemical disposal company.

It contains:

2.3 Other hazards

Information N/A.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

The article contains individual cartridges with a propelling charge and can only be opened with the use of force or with the destruction of the article. The composition of the individual cartridges is defined according to the type of effect the fireworks are to obtain and the powder contained in the cartridges is harmful to health if swallowed. It ignites easily and contains the following substances:

Identification	Conc. %	Classification 67/548/EEC	Classification 1272/2008 (CLP)
Perchlorate of potassium			
CAS. 7778-74-7		OR9, Xn R22	Ox. Sol. 1 H271, Acute Tox. 4 H302
CE. 231-912-9	5 - 10		
INDEX. 017-008-00-5			
Cuprous Oxide (88.82% - metallic element)			
CAS. 1317-39-1	5 - 10	Xn R22, N R50/53	Acute Tox. 4 H302, Aquatic Acute 1 H400 M= 10, Aquatic Chronic 1 H410 M=10
CE: 215-270-7			
INDEX. 029-002-00-X			
Nitrocellulose			
CAS. 9004-70-0	60 - 80	F R11	Flam. Sol. 2 H228
CE. -			
INDEX. -			
Barium nitrate			
CAS. 10022-31-8	5 - 10	O R 8, Xn R20/22	Ox. Sol. 1 H271, Acute Tox. 4 H302, Acute Tox. 4 H332
CE. 233-020-5			
INDEX. -			

Note: a higher value than the range is excluded.

For the full text of Risk (R) and Hazard (H) phrases see section 16 of this sheet.

T+ = Very Toxic (T+), T = Toxic (T), Xn = Noxious (Xn), C = Corrosive (C), Xi = Irritating (Xi), O = Oxidising (O), E = Explosive (E), F+ = Extremely Flammable (F+), F = Highly Flammable (F), N = Dangerous for the Environment (N)

SECTION 4. First Aid Measures

4.1 Description of first aid measures

EYES: Remove any contact lenses. Rinse with plenty of water for at least 15 minutes while holding eyelids open. If irritation persists, seek medical attention.

SKIN: Remove contaminated clothes. Wash yourself with water. If irritation persists, seek medical attention. Wash contaminated clothes before wearing them again.

INHALATION: Move to well-ventilated area. If there is difficulty breathing, seek medical attention immediately.

INGESTION: Seek medical attention immediately. Only induce vomiting on the physician's orders. Do not administer anything orally, if the person is unconscious or without medical authorisation.

4.2 Most important symptoms and effects, both acute and delayed

For symptoms and effects caused by the substances contained, see section 10.

4.3 Indication of any immediate medical attention and special treatment needed

Information N/A

SECTION 5. Firefighting measures

5.1. Extinguishing Media

SUITABLE EXTINGUISHING MEDIA

Traditional extinguishing agents: water mist, foam, sand, Halon, and powder.

UNSUITABLE EXTINGUISHING MEDIA

Water can be used to cool closed containers exposed to flames to prevent explosions.

5.2 Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF A FIRE

Do not breathe combustion products. The product is combustible and when fine powders are dispersed in air in sufficient concentrations and in the presence of an ignition source, it is liable to form explosive mixtures with the air. A fire may develop, or be fed further by the solid, possibly leaked from the container, when it reaches high temperatures or by contact with ignition sources.

5.3 Advice for fire-fighters

GENERAL INFORMATION

Cool containers with spray water to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention equipment. Collect contaminated firewater separately and do not discharge to sewers. Dispose of contaminated firewater and fire remains in accordance with applicable regulations.

EQUIPMENT

Protective clothing for firefighting, including a self-contained open circuit compressed air breathing apparatus (EN 137), flame-retardant suit (EN 469), flame-retardant gloves (EN 659) and firefighter boots (HO A29 or A30).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective devices and procedures in case of an emergency

For those who do not intervene directly

Leave the site of the accident if you are not in possession of adequate respiratory and eye protective equipment (see section 8).

For emergency responders

Block the leakage if there is no danger. Narrow down the area of the accident. Wear appropriate protective devices (including personal protective equipment referred to under section 8 of the safety data sheet) to prevent any contamination of the skin, the eyes and personal clothing. Avoid breathing vapours, mists and gases.

6.2 Environmental precautions

Prevent product from entering drains, surface water, and groundwater.

6.3 Methods and materials for containment and cleaning up

Use spark proof mechanical tools to collect the leaked product and place it in containers for recovery or disposal. Eliminate the remainder by spraying water, if there are no contraindications.

Ensure adequate ventilation of the place affected by the leak. Check for any incompatibilities for the container material in section 7. Disposal of contaminated material must be carried out in accordance with the provisions of section 13.

6.4 Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Avoid contact with eyes and skin. Do not inhale any dust or fumes or mist. Avoid product dispersion in the environment. Operate in well ventilated areas. Avoid flames and sparks. Do not eat, drink or smoke while handling. Remove contaminated clothing and protective equipment before entering eating areas.

Do not tamper with the article or take it apart.

7.2. Conditions for safe storage, including any incompatibilities

Keep only in the original container. Keep the containers closed in a well ventilated area, away from direct sunlight. Store containers away from any incompatible materials, verifying section 10.

7.3 Specific end uses

Information N/A

SECTION 8. Exposure Controls/Personal Protection

8.1 Control parameters

Regulatory references:

Italy	Legislative Decree no. 81 of 9 April 2008.
OEL EU	Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC
TLV-ACGIH	ACGIH 2014

Threshold Limit Value

Type	State TWA/8h	STEL/15min	Notes*
N/A			

8.2 Exposure controls

Considered that the use of adequate technical measures must always take priority over personal protective equipment, make sure you have good ventilation in the workplace through effective local aspiration. For the selection of personal protective equipment, ask suppliers of chemical substances for advice, and ensure that the individual protection devices bear the EC marking attesting their compliance with the current regulations.

After product ignition, immediately move away from the area and take cover at a safe distance. During the use of the product it is absolutely forbidden to eat, drink, smoke or sniff tobacco. Observe the usual safety measures in handling chemical substances.

HAND PROTECTION

In reasonable conditions of use, the substances contained in the article should not come into contact with the skin, except for tampering and breakage. However, to avoid accidental contact with the chemical substances contained, it is recommended that you protect hands with gloves resistant to penetration (ref. Standard EN 374).

Wash hands after using the product or once the work is finished.

EYE PROTECTION

In case of dust during the use of the product, it is advisable to wear protective airtight goggles (ref. Standard EN 166).

RESPIRATORY PROTECTION

If the threshold limit value (e.g. TLV-TWA) of one or more of the substances present in the product is exceeded, it is recommended that you wear a mask with dust filter type P, the class (1, 2 or 3) of which must be chosen in relation to the concentration limit of use (ref. Standard EN 14387).

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical Status	Solid (powder)
Colour	Black, dark brown
Odour	N/A
Odour threshold.	N/A
pH.	N/A
Melting or freezing point	N/A
Initial boiling point	N/A
Boiling range	N/A
Flash point	N/A
Evaporation rate	N/A
Flammability of solids and gases	N/A
Lower flammable limit	N/A
Higher flammable limit	N/A
Lower explosive limit	N/A
Higher explosive limit	N/A
Vapour density	N/A
Relative density	N/A
Solubility	N/A
Octanol/water partition coefficient	N/A
Auto-ignition temperature	N/A
Decomposition temperature	N/A
Viscosity	N/A
Explosive properties	1.4G Pyrotechnic article
Oxidising properties	N/A

9.2. Other information

Information N/A

SECTION 10. Stability and reactivity

10.1 Reactivity

Information N/A

10.2 Chemical stability

Information N/A

10.3 Possibility of hazardous reactions

Information N/A

10.4 Conditions to avoid

Avoid overheating, open flames and sparks. Do not allow moisture or water to enter the containers.

10.5 Incompatible materials

Acid and salt solutions.

10.6 Hazardous decomposition products

Carbon monoxide, carbon dioxide and oxides of nitrogen.

SECTION 11. Toxicological information

11.1 Information on toxicological effects.

In the absence of experimental toxicological data on the product, the possible dangers of the product to health were evaluated on the basis of the properties of the contained substances according to the classification criteria provided for by the reference legislation. Therefore, consider the concentration of each hazardous substance possibly mentioned in section 3, to assess toxicological effects resulting from exposure to the product.

- a) **Acute toxicity**
The product is harmful if ingested and even small amounts ingested can lead to serious health disorders (abdominal pain, nausea, vomiting, and diarrhoea).
- b) **Skin corrosion/irritation**
The product is irritating to the skin and can cause vesiculation on the skin, which can occur even following exposure.
- c) **Ocular lesions/serious ocular irritation**
The product may cause irritation in the event of contact with the eyes.
- d) **Respiratory or skin sensitization**
Inhalation may cause irritation of the upper and lower respiratory tract, coughing and difficulty in breathing. Ingestion may cause health disorders, including abdominal pain with burning sensation, nausea and vomiting.
- e) **Germ cell mutagenicity**
The product is not classified for this hazard class.
- f) **Carcinogenicity**
The product is not classified for this hazard class.
- g) **Toxicity for reproduction**
The product is not classified for this hazard class.
- h) **Specific Target Organ Toxicity(STOT) -single exposure**
The product is not classified for this hazard class.
- i) **Specific Target Organ Toxicity(STOT) -repeated exposure**
The product is not classified for this hazard class.
- j) **Aspiration hazard**
The product is not classified for this hazard class.

SECTION 12. Ecological information

The product is considered as dangerous for the environment and has a high toxicity against aquatic organisms with long-term adverse effects in the aquatic environment.

12.1 Toxicity

CUPROUS OXIDE

LC50 – Fish

0.075 mg/l/96h Zebrafish

EC50 – Shellfish

0.042 mg/l/48h Daphnia Similis

EC50 – Algae /Aquatic plants

0.03 mg/l/72h Pseudokirchneriella subcapitata

12.2 Persistence and degradability

Information N/A

12.3 Bioaccumulation potential

Not bioaccumulative

12.4 Mobility in soil

Information N/A

12.5 Results of PBT and vPvB assessment

According to the data available, the product does not contain more than 0.1% of PBT or vPvB substances.

12.6 Other adverse effects

Information N/A

SECTION 13. Disposal considerations

13.1 Waste treatment methods

The hazard level of waste containing this product should be evaluated according to applicable regulations. Disposal must be entrusted to an authorised waste management company in compliance with national and local legislation.

Avoid disposal of the product in the soil, sewers or water courses.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations and must not be abandoned after use.

SECTION 14. Transport information

The transport must be carried out by vehicles authorised to the carriage of dangerous goods according to the requirements of the valid edition of the ADR Agreement and applicable national provisions. The transport must be carried out in the original packaging, and in packaging made from materials resistant to corrosion by the contents and are not likely to generate dangerous reactions. Attendants to the loading and unloading of dangerous goods must have received appropriate training on the risks presented by the preparation and on any procedures to be taken in the event of the occurrence of emergency situations.

14.1 UN number; 14.2 UN proper shipping name; 14.3. Transport hazard classes; 14.4 Packing group; 14.5 Environmental hazards; 14.6 Special precautions for user

Road or rail transport:

ADR/RID Class:	1	UN:	0336
Packing Group:	-	Special provisions	645, 651
Label:	1.4G	Packaging instructions	PI35
Kemler code:		Loading/unloading, handling	CV1, CV2, CV3
Limited Quantity:	0	Exempted quantities	(EO)
Tunnel restriction code	(E)	Transport category	2
Shipping name:	FIREWORKS		

Maritime transport:

IMO class:	1	UN:	0336
Packing Group:	-		
Label:	1.4G		
EMS:	F-B, S-X		
Marine Pollutant	NO		
Proper Shipping Name:	FIREWORKS		

Air transport:

IATA:	Forbidden	UN	0335
Packing Group:	-		
Label:	-		
Cargo:	-		
Packaging instructions:	-		
Pass.:	-		
Packaging instructions:	-		
Proper Shipping Name:	-		

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

If you intend to carry out bulk transport adhere to Annex II of MARPOL 73/78 and the IBC code where applicable.

SECTION 15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Seveso category 9i

Restrictions relating to the product or contained substances pursuant to Annex XVII to Regulation (EC) 1907/2006

Product:

Point 3

Substances in the Candidate List {Art. 59 REACH):

None.

Substances subject to authorisation {Annex XIV REACH):

None.

Substances subject to export notification Reg. (EC) 649/2012:

None.

Substances subject to the Convention of Rotterdam:

None.

Substances subject to the Convention of Stockholm:

None.

Health Checks.

Workers exposed to this chemical agent hazardous to health must be submitted to health surveillance made in accordance with the provisions of art. 41 of Lgs. D. 81 of 9 April 2008, unless the risk for the worker's health has been assessed as irrelevant, as provided by art. 224 paragraph 2.

15.2 Chemical safety assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information

Text of Hazard (H) phrases cited in sections 2-3 of the safety data sheet

Expl.1.4	Explosive division 1.4
Pyr.Sol.1	Pyrophoric Solid, category 1
Ox.Sol. 1	Oxidising Solid, category 1
AcuteTox.4	Acute Toxicity, category 4
STOT RE1	Specific target organ toxicity – repeated exposure, category 1
STOT RE2	Specific target organ toxicity – repeated exposure, category 2
Skin Irrit. 2	Skin irritation, category 2
Aquatic Acute 1	Hazardous to the aquatic environment-Aquatic Acute, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment-Aquatic Chronic, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment-Aquatic Chronic, category 2
H204	Fire or projection hazard
H250	Ignites spontaneously with air
H260	In contact with water releases flammable gases which may ignite spontaneously
H261	In contact with water releases flammable gases.
H271	May cause a fire or an explosion; highly oxidising
H302	Harmful if swallowed.
H332	Harmful if inhaled.
H332	Causes damage to organs through prolonged or repeated exposure.
H372	May cause damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H315	Causes skin irritation.
H400	Highly toxic for aquatic organisms.
H410	Highly toxic for aquatic organisms with long-term effects.
H411	Toxic for aquatic organisms with long-term effects.

Text of the Risk (R) phrases cited in sections 2-3 of the safety data sheet:

R2	RISK OF EXPLOSION BY SHOCK, FRICTION, FIRE OR OTHER SOURCES OF IGNITION
R8	MAY CAUSE THE IGNITION OF COMBUSTIBLE MATERIALS
R 9	EXPLOSIVE WHEN MIXED WITH COMBUSTIBLE MATERIALS
R15	IN CONTACT WITH WATER RELEASES EXTREMELY FLAMMABLE GASES
R17	SPONTANEOUSLY FLAMMABLE IN AIR
R20	HARMFUL IF INHALED
R20/22	HARMFUL IF INHALED AND SWALLOWED
R22	HARMFUL IF SWALLOWED
R38	SKIN IRRITATING
R48/20/22	HARMFUL: DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE THROUGH INHALATION AND INGESTION
R48/23/25	TOXIC: DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE THROUGH INHALATION AND INGESTION
R50/53	EXTREMELY TOXIC FOR AQUATIC ORGANISMS. MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT
R51/53	TOXIC FOR AQUATIC ORGANISMS. MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT

LEGEND:

- ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: The half maximal effective concentration of a compound
- EC NUMBER: Identifier number in ESIS (European Chemical Substances Information System)
- CLP: Regulation (EC) 1272/2008
- DNEL: The derived no-effect level
- EmS: Emergency Schedule
- GHS: Globally Harmonised system of Classification and Labelling of Chemicals
- IATA DGR :Dangerous Goods Regulations of the International Air Transport Association
- IC50: The half maximal inhibitory concentration
- IMDG: International Maritime Dangerous Goods Code
- IMO: International Maritime Organisation
- INDEX NUMBER: The index number of an entry in Annex VI of the CLP Regulation
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- OEL: Occupational Exposure Limit
- PBT: Persistent, Bioaccumulative and Toxic Substances according to REACH
- PEC: Predicted Environmental Concentration
- PEL: Permissible Exposure Limit
- PNEC: Predicted No-Effect Concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulations concerning the International Transport of Dangerous Goods by Rail
- TLV: Threshold Limit Value
- TLV CEILING: The concentration in air that should not be exceeded during any part of the working exposure
- TWA STEL: Short-term exposure limits
- TWA: Time-weighted average
- VOC: Volatile Organic Compound
- vPvB: Very Persistent and very Bioaccumulative according to REACH
- WGK: The German Water hazard classes

GENERAL BIBLIOGRAPHY:

1. Directive 1999/45/EC and subsequent amendments
2. Directive 67/548/EEC and subsequent amendments and alterations
3. Regulation (EC) 1907/2006 of the European Parliament (REACH)
4. Regulation (EC) 1272/2008 of the European Parliament (CLP)
5. Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)
6. Regulation (EC) 453/2010 of the European Parliament
7. Regulation (EC) 286/2011 of the European Parliament (II Atp. CLP)
8. Regulation (EC) 618/2012 of the European Parliament (III Atp. CLP)
9. The Merck Index. Ed. 10
10. Handling Chemical Safely
11. Niosh - Registry of Toxic Effects of Chemical Substances
12. INRS - Fiche Toxicologique
13. Patty - Industrial Hygiene and Toxicology
14. N.I.Sax - Dangerous properties of Industrial Materials-7 Ed., 1989
15. ECHA Agency Website

Note to the user:

The information contained in this safety sheet is based on the knowledge available to us at the date of the last revision. The user must verify the suitability and thoroughness of the provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

Since the use of this product is not subject to our direct control, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide adequate training to staff involved in the use of chemical products.

28/07/2015