SILVER SPRAY - 089250-NFDT-EN

Date: 06/10/2015 Page 1/16

Revision: N°3 (24/02/2015)

SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name: SILVER SPRAY Product code: 089250-NFDT-EN.

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

Ideal for use on handicrafts (e.g. cones, cardboard, etc.), Christmas decorations and flower arrangements. Only use the product as directed on the aerosol.

1.3. Details of the supplier of the safety data sheet

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Aerosol, Category 3 (Aerosol 3, H229).

This mixture does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8).

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

Mixture for aerosol application.

In compliance with EC regulation No. 1272/2008 and its amendments.

Signal Word:

WARNING

Additional labeling:

34% by mass of the contents are flammable.

Hazard statements:

H229 Pressurised container: May burst if heated.

Precautionary statements - General:

If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

Precautionary statements - Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Do not pierce or burn, even after use.

Precautionary statements - Storage:

P410 + P412Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European CHemicals Agency (ECHA) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table

The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC

Intentional misuse of the preparation by concentrating and inhaling the vapours can be harmful or fatal.

Date: 06/10/2015 Page 2/16 Version: N°2 (06/10/2015) Revision: N°3 (24/02/2015)

SILVER SPRAY - 089250-NFDT-EN

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition:

composition:	-		
Identification	(EC) 1272/2008	Note	%
EC: 918-167-1	GHS08, GHS02		$10 \le x \% < 25$
REACH: 01-2119472146-39	Dgr		
	Flam. Liq. 3, H226		
HYDROCARBONS, C11-C12, ISOALKANES,	Asp. Tox. 1, H304		
< 2 % AROMATICS	EUH:066		
CAS: 106-97-8	GHS02	С	1 <= x % < 2.5
EC: 203-448-7	Dgr	[1]	
REACH: 01-2119474691-32	Flam. Gas 1, H220	[7]	
	Press. Gas, H280		
BUTANE (< 0,1 % 1,3-BUTADIENE)	,		
CAS: 109-87-5	GHS02	[1]	1 <= x % < 2.5
EC: 203-714-2	Dgr		
REACH: 01-2119664781-31	Flam. Liq. 2, H225		
	•		
METHYLAL			
CAS: 7429-90-5	GHS02	T	1 <= x % < 2.5
EC: 231-072-3	Dgr	[1]	
REACH: 01-2119529243-45	Flam. Sol. 1, H228		
ALUMINIUM POWDER (STABILISED)			
CAS: 68439-50-9	GHS05, GHS09		0 <= x % < 1
EC: 500-213-3	Dgr		
REACH: 01-2119487984-16	Skin Corr. 1B, H314		
	Aquatic Chronic 3, H412		
ALCOHOLS, C12-14, ETHOXYLATED	Aquatic Acute 1, H400		
, , , , ,	M Acute = 1		

Information on ingredients:

- [7] Propellant gas
- [1] Substance for which maximum workplace exposure limits are available.

SECTION 4: FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

In the event of exposure by inhalation:

In the event of massive inhalation, remove the person exposed to fresh air. Keep warm and at rest.

In the event of splashes or contact with eyes:

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

In the event of splashes or contact with skin:

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

In the event of swallowing:

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Keep the person exposed at rest. Do not force vomiting.

Seek medical attention, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

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

See section 11.

4.3. Indication of any immediate medical attention and special treatment needed

If you feel unwell, seek medical advice (show the label if possible). If symptoms persist, always call a doctor.

SILVER SPRAY - 089250-NFDT-EN

Date: 06/10/2015 Page 3/16

Revision: N°3 (24/02/2015)

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

If the aerosols are exposed to a fire: keep containers cool by spraying with water from a protected position.

Suitable methods of extinction

In the event of a fire, use:

- sprayed water or water mist
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO2)

Unsuitable methods of extinction

In the event of a fire, do not use:

- water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed:

- carbon monoxide (CO)
- carbon dioxide (CO2)
- nitrogen oxide (NO)
- nitrogen dioxide (NO2)

In a fire or if heated, a pressure increase will occur and the container may burst. Bursting aerosol containers may be propelled from a fire at high speed. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

5.3. Advice for firefighters

If possible, stop the product stream. Spray from a protected position till the containers are cool. If possible, take the aerosols outside. Keep public on a distance.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

No data available.

SECTION 7: HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

Always wash hands after handling.

Ensure that there is adequate ventilation, especially in confined areas.

Fire prevention:

Handle in well-ventilated areas.

Do not pierce or burn, even after use.

Prevent access by unauthorised personnel.

SILVER SPRAY - 089250-NFDT-EN

Date: 06/10/2015 Page 4/16

Revision: N°3 (24/02/2015)

Recommended equipment and procedures:

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Do not breathe in aerosols.

Packages which have been opened must be reclosed carefully and stored in an upright position.

Prohibited equipment and procedures:

No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Keep out of reach of children.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C.

Keep away from heat and sources of ignition. Storage in a dry, frost-free and well ventilated place.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits:

- UK / WEL (Workplace exposure limits, EH40/2005, 2007):

CAS	TWA:	STEL:	Ceiling:	Definition:	Criteria:
106-97-8	600 ppm	750 ppm	-	-	-
109-87-5	1000 ppm	1250 ppm	-	-	-
7429-90-5	2 mg/m3	-	-	-	-

Hydrocarbons, C11-C12, isoalkanes, < 2 % aromatics : AGW (DE) : 600 mg/m³ (8 h)

- Ireland (Code of practice for the safety, Health and Welfare at Work, 2010):

CAS	TWA:	STEL:	Ceiling:	Definition:	Criteria:
106-97-8	600 ppm	750 ppm	-	-	-
109-87-5	1000 ppm	1250 ppm	-	-	-
7429-90-5	2 mg/m3	_	-	-	_

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

METHYLAL (CAS: 109-87-5)

Final use: Workers. Exposure method: Dermal contact.

Potential health effects: Long term systemic effects. DNEL: 17.9 mg/kg body weight/day

Exposure method: Inhalation.

Potential health effects: Long term systemic effects. DNEL: 126.6 mg of substance/m3

Consumers. Final use:

Exposure method: Ingestion.

Potential health effects: Long term systemic effects. DNEL: 9.6 mg/kg body weight/day

Exposure method: Dermal contact.

Potential health effects: Long term systemic effects. DNEL: 5.7 mg/kg body weight/day

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

SILVER SPRAY - 089250-NFDT-EN

Date: 06/10/2015 Page 5/16

Revision: N°3 (24/02/2015)

DNEL: 39 mg of substance/m3

Predicted no effect concentration (PNEC):

METHYLAL (CAS: 109-87-5)

Environmental compartment: Soil.

PNEC: 4.6538 mg/kg

Fresh water. Environmental compartment: PNEC: 14.577 mg/l

Environmental compartment: Sea water. PNEC: 1.4577 mg/l

Environmental compartment: Fresh water sediment.

PNEC: 13.135 mg/kg

Environmental compartment: Marine sediment. PNEC: 1.3135 mg/kg

Environmental compartment: Waste water treatment plant.

PNEC: 10000 mg/l

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

 $Pictogram(s)\ indicating\ the\ obligation\ of\ wearing\ personal\ protective\ equipment\ (PPE):$



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles in accordance with standard EN166.

Do not spray in the direction of the eyes.

- Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Type of gloves recommended:

- Natural latex
- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- PVC (polyvinyl chloride)
- PVA (Polyvinyl alcohol)
- Butyl Rubber (Isobutylene-isoprene copolymer)

Not necessary at efficient use. Wash your hands after contact with skin.

- Body protection

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

Not necessary at efficient use. Wash skin that has been in contact with the product, with water and soap.

- Respiratory protection

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387:

- A1 (Brown)

Do not breathe spray. Use only in well-ventilated areas.

SILVER SPRAY - 089250-NFDT-EN

Date: 06/10/2015 Page 6/16

Revision: N°3 (24/02/2015)

Exposure controls linked to environmental protection

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information:

Physical state: Fluid liquid.

Spray.

Color: Silver Odour: Specific

Important health, safety and environmental information

pH: 7.00 .

Neutral.

No ignition

Not relevant. Flash point interval: Vapour pressure (50°C): Not relevant. 0.925 Density: Water solubility: Soluble. < 20 kJ/g.Chemical combustion heat: Inflammation time: > 300 s/m3.Flash point: Not applicable Flammability: Not applicable

Ignition distance: 9.2. Other information

Pressure at 20°C: \pm 6.0 bar Pressure at 50°C: < 12 bar

Water content: Water-based formulation

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid

Avoid:

- heat
- flames and hot surfaces

Protect from sunlight and do not expose to temperatures exceeding 50°C. Keep away from heat and sources of ignition. Storage in a dry, frost-free and well ventilated place.

10.5. Incompatible materials

No materials known by which a dangerous reaction can appear.

10.6. Hazardous decomposition products

The thermal decomposition may release/form:

- carbon monoxide (CO)
- carbon dioxide (CO2)
- nitrogen oxide (NO)
- nitrogen dioxide (NO2)

The product is stable. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SILVER SPRAY - 089250-NFDT-EN

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Splashes in the eyes may cause irritation and reversible damage

11.1.1. Substances

Acute toxicity:

BUTANE (< 0,1 % 1,3-BUTADIENE) (CAS: 106-97-8)

Inhalation route (n/a): LC50 > 10 mg/l

ALCOHOLS, C12-14, ETHOXYLATED (CAS: 68439-50-9)

Oral route : LD50 > 2000 mg/kg

Species: Rat

ALUMINIUM POWDER (STABILISED) (CAS: 7429-90-5)

Oral route: LD50 > 2000 mg/kg

Species: Rat

Inhalation route (n/a): LC50 > 888 mg/m3

Species: Rat

METHYLAL (CAS: 109-87-5)

Oral route : LD50 = 6423 mg/kg

Species: Rat

OECD Guideline 423 (Acute Oral toxicityAcute Toxic Class Method)

Date: 06/10/2015 Page 7/16

Revision: N°3 (24/02/2015)

Dermal route: LD50 > 5000 mg/kg

Species: Rabbit

OECD Guideline 402 (Acute Dermal Toxicity)

HYDROCARBONS, C11-C12, ISOALKANES, < 2 % AROMATICS

Oral route : LD50 > 5000 mg/kg

Species: Rat

OECD Guideline 401 (Acute Oral Toxicity)

Dermal route : LD50 > 5000 mg/kg

Species: Rabbit

OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (n/a): LC50 > 4951 mg/m3

Species: Rat

OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/skin irritation:

Methylal: Not irritating. Repeated or prolonged skin contact may cause dermatitis and defatting.

 $Hydrocarbons, C11-C12, isoalkanes, <2\ \%\ aromatics: Not\ classified\ as\ harmful\ but\ marked\ with\ EUH066.$

Aluminium powder (stabilised) : Not classified. Alcohols, C12-14, ethoxylated : Corrosive to skin.

HYDROCARBONS, C11-C12, ISOALKANES, < 2 % AROMATICS

Corrosivity: No observed effect.

OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious damage to eyes/eye irritation:

Methylal: Not irritating.

Hydrocarbons, C11-C12, isoalkanes, < 2 % aromatics: Not classified as damaging or irritant to eyes.

Alcohols, C12-14, ethoxylated: Causes serious eye damage.

Aluminium powder (stabilised): Not classified.

HYDROCARBONS, C11-C12, ISOALKANES, < 2 % AROMATICS

SILVER SPRAY - 089250-NFDT-EN

OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Date: 06/10/2015 Page 8/16

Revision: N°3 (24/02/2015)

Respiratory or skin sensitisation:

Methylal: Not sensitizing.

Hydrocarbons, C11-C12, isoalkanes, < 2 % aromatics: Not classified as sensitizing.

Aluminium powder (stabilised) : Not classified. Alcohols, C12-14, ethoxylated : Not sensitizing.

Germ cell mutagenicity:

ALCOHOLS, C12-14, ETHOXYLATED (CAS: 68439-50-9)

No mutagenic effect.

ALUMINIUM POWDER (STABILISED) (CAS: 7429-90-5)

No mutagenic effect.

METHYLAL (CAS: 109-87-5)

No mutagenic effect.

BUTANE (< 0,1 % 1,3-BUTADIENE) (CAS: 106-97-8)

No mutagenic effect.

HYDROCARBONS, C11-C12, ISOALKANES, < 2 % AROMATICS

No mutagenic effect.

OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

OECD Guideline 471 (Bacterial Reverse Mutation Assay)

Carcinogenicity:

Alcohols, C12-14, ethoxylated: No known significant effects or critical hazards.

ALUMINIUM POWDER (STABILISED) (CAS: 7429-90-5) Carcinogenicity Test: Negative.

No carcinogenic effect.

METHYLAL (CAS: 109-87-5)

Carcinogenicity Test: Negative.

No carcinogenic effect.

BUTANE (< 0,1 % 1,3-BUTADIENE) (CAS: 106-97-8)

Carcinogenicity Test: Negative.

No carcinogenic effect.

HYDROCARBONS, C11-C12, ISOALKANES, < 2 % AROMATICS

Carcinogenicity Test: Negative.

No carcinogenic effect.

OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

Reproductive toxicant:

Alcohols, C12-14, ethoxylated: No known significant effects or critical hazards.

ALUMINIUM POWDER (STABILISED) (CAS: 7429-90-5)

No toxic effect for reproduction

METHYLAL (CAS: 109-87-5) No toxic effect for reproduction

BUTANE (< 0,1 % 1,3-BUTADIENE) (CAS: 106-97-8)

No toxic effect for reproduction

HYDROCARBONS, C11-C12, ISOALKANES, < 2 % AROMATICS

No toxic effect for reproduction

SILVER SPRAY - 089250-NFDT-EN

OECD Guideline 414 (Prenatal Developmental Toxicity Study) OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)

Date: 06/10/2015 Page 9/16

Revision: N°3 (24/02/2015)

Specific target organ systemic toxicity - single exposure :

Methylal: To human: Not classified for organ toxicity. For animals: No effects known. Hydrocarbons, C11-C12, isoalkanes, < 2 % aromatics: Not classified as toxic to a target organ.

Aluminium powder (stabilised): Not classified.

Specific target organ systemic toxicity - repeated exposure :

Methylal: To human: Not classified for organ toxicity. For animals: No effects known. Hydrocarbons, C11-C12, isoalkanes, < 2 % aromatics: Not classified as toxic to a target organ.

Aluminium powder (stabilised): Not classified.

Aspiration hazard:

Methylal: Not considered hazardous.

Hydrocarbons, C11-C12, isoalkanes, < 2 % aromatics: In case of swallowing or vomiting product can enter airways and can cause chemical pneumonitis and pulmonary oedema.

Aluminium powder (stabilised): Not classified.

11.1.2. Mixture

No toxicological data available for the mixture.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Substances

ALUMINIUM POWDER (STABILISED) (CAS: 7429-90-5)

LC50 = 1.16 mg/lFish toxicity:

Duration of exposure: 96 h

EC50 = 0.72 mg/lCrustacean toxicity:

Duration of exposure: 48 h

ECr50 = 0.0002 mg/lAlgae toxicity:

Duration of exposure: 72 h

METHYLAL (CAS: 109-87-5)

LC50 > 1000 mg/lFish toxicity:

> Species: Danio rerio Duration of exposure: 96 h

OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity: EC50 > 1000 mg/l

> Species: Daphnia magna Duration of exposure: 48 h

OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

HYDROCARBONS, C11-C12, ISOALKANES, < 2 % AROMATICS

Fish toxicity: LC50 > 1000 mg/l

> Species: Oncorhynchus mykiss Duration of exposure: 96 h

EC50 > 1000 mg/lCrustacean toxicity:

> Species: Daphnia magna Duration of exposure: 48 h

NOEC >= 1 mg/l Species : Daphnia magna

Duration of exposure: 21 days

ECr50 > 1000 mg/l Algae toxicity:

Date: 06/10/2015 Page 10/16 Version: N°2 (06/10/2015) Revision: N°3 (24/02/2015)

SILVER SPRAY - 089250-NFDT-EN

Species: Pseudokirchnerella subcapitata

Duration of exposure: 72 h

NOEC = 1000 mg/l

Species: Pseudokirchnerella subcapitata

Duration of exposure: 72 h

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

Butane/Isobutane/Propane: Expected to be readily biodegradable.

Hydrocarbons, C11-C12, isoalkanes, < 2 % aromatics: Transformation due to hydrolysis and due to photolysis is not expected to be significant. Expected to degrade rapidly in air. Inherently biologically degradable.

12.2.1. Substances

ALCOHOLS, C12-14, ETHOXYLATED (CAS: 68439-50-9)

Biodegradability: Rapidly degradable.

METHYLAL (CAS: 109-87-5)

Biodegradability: no degradability data is available, the substance is considered as not degrading

quickly.

BUTANE (< 0,1 % 1,3-BUTADIENE) (CAS: 106-97-8)

Biodegradability: Rapidly degradable.

HYDROCARBONS, C11-C12, ISOALKANES, < 2 % AROMATICS Biodegradability: Rapidly degradable.

12.3. Bioaccumulative potential

Butane/Isobutane/Propane: Not expected to be dangerous for the aquatic environment.

Methylal: No data available.

Hydrocarbons, C11-C12, isoalkanes, < 2 % aromatics : Not determined.

Alcohols, C12-14, ethoxylated: No data available. Aluminium powder (stabilised): No data available.

12.4. Mobility in soil

Butane/Isobutane/Propane: If released into the environment, the product will rapidly disperse into the atmosphere where it will undergo photochemical degradation.

Methylal: No data available.

Hydrocarbons, C11-C12, isoalkanes, < 2 % aromatics: The product can evaporate relatively quickly. It is presumed that there is no distribution in the sediment layer and waste water substances.

Alcohols, C12-14, ethoxylated: No data available. Aluminium powder (stabilised): No data available.

12.5. Results of PBT and vPvB assessment

Hydrocarbons, C11-C12, isoalkanes, < 2 % aromatics: PBT/vPvB: No.

Methylal: PBT/vPvB: No.

Alcohols, C12-14, ethoxylated: PBT/vPvB: No. Aluminium powder (stabilised): PBT/vPvB: No.

12.6. Other adverse effects

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste:

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

SILVER SPRAY - 089250-NFDT-EN

Date: 06/10/2015 Page 11/16

Revision: N°3 (24/02/2015)

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging:

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

SECTION 14: TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2015 - IMDG 2014 - ICAO/IATA 2015).

14.1. UN number

1950

14.2. UN proper shipping name

UN1950=AEROSOLS, asphyxiant

14.3. Transport hazard class(es)

- Classification:

2.2

ADR/RID Label: Limited Quantity: 2.2 is not applicable.

14.4. Packing group

-

14.5. Environmental hazards

-

14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	2	5A	-	2.2	-	1 L	190 327 344 625	E0	3	E
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ		•	•
	2.2	See SP63	-	See SP277	F-D,S-U	63 190 277 327	E0			
						344 959				
IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ	
	2.2	-	-	203	75 kg	203	150 kg	A98	E0	
								A145		
								A167		
								A802		
	2.2	-	-	Y203	30 kg G	-	-	A98	E0	
								A145		
								A167		
								A802		

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

SECTION 15: REGULATORY INFORMATION

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

- Classification and labelling information included in section 2:

The following regulations have been used:

- Directive 75/734/CEE modified by directive 2013/10/UE
- EU Regulation No. 1272/2008 amended by EU Regulation No. 487/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 944/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 605/2014.

- Container information:

No data available.

- Particular provisions :

Labelling following EU Regulation No. 517/2014:

Contains fluorinated greenhouse gases covered by the Kyoto Protocol: HFC-152a.

15.2. Chemical safety assessment

A chemical safety assessment has been carried out for the following products or for the substances in these products : Methylal

- Made under licence of European Label System® MSDS software from InfoDyne - http://www.infodyne.fr -

SILVER SPRAY - 089250-NFDT-EN

Date: 06/10/2015 Page 12/16

Revision: N°3 (24/02/2015)

Hydrocarbons, C11-C12, isoalkanes, < 2 % aromatics

Alcohols, C12-14, ethoxylated Aluminium powder (stabilised)

SECTION 16: OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Wording of the phrases mentioned in section 3:

H220	Extremely flammable gas.
------	--------------------------

H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour.

H228 Flammable solid.

H280 Contains gas under pressure; may explode if heated. H304 May be fatal if swallowed and enters airways. H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects. EUH066 Repeated exposure may cause skin dryness or cracking.

Abbreviations:

DNEL: Derived No-Effect Level

PNEC: Predicted No-Effect Concentration

ADR: European agreement concerning the international carriage of dangerous goods by Road.

IMDG: International Maritime Dangerous Goods. IATA: International Air Transport Association. ICAO: International Civil Aviation Organisation

RID: Regulations concerning the International carriage of Dangerous goods by rail.

WGK: Wassergefahrdungsklasse (Water Hazard Class).

Difference Report

Revision: N°3 (24/02/2015) / Version: N°2 (06/10/2015)

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

Revision: N°2 (19/04/2013) / Version: N°3 (21/03/2014)

SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 453/2010)

SECTION 2: HAZARDS IDENTIFICATION

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Contains:

Safety phrase:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C.

Do not pierce or burn, even after use. 52 Keep out of the reach of children.

S 23 Do not breathe spray.

S 46 If swallowed, seek medical advice immediately and show this container or label.

S 51 Use only in well-ventilated areas.

In compliance with EC regulation No. 1272/2008 and its amendments.

Aerosol, Category 3 (Aerosol 3, H229).

SILVER SPRAY - 089250-NFDT-EN

Date: 06/10/2015 Page 13/16 Revision: N°3 (24/02/2015)

In compliance with EC regulation No. 1272/2008 and its amendments.

Signal Word:

WARNING

Additional labeling: Hazard statements:

H229 Pressurised container: May burst if heated.

Precautionary statements - General:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

Precautionary statements - Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P251 Do not pierce or burn, even after use.

Precautionary statements - Storage:

Protect from sunlight. Do not expose to temperatures exceeding 50 °C. P410 + P412

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Composition:

Identification	(EC) 1272/2008	67/548/EEC	Note	%
EC: 918-167-1	GHS08, GHS02	Xn		10 <= x % < 25
REACH: 01-2119472146-39	Dgr			
	Flam. Liq. 3, H226	R66		
HYDROCARBONS, C11-C12, ISOALKANES,	Asp. Tox. 1, H304			
< 2 % AROMATICS	EUH:066			
INDEX: 601-004-00-0	GHS02, GHS04	F+	C	1 <= x % < 2.5
CAS: 106-97-8	Dgr		[1]	
EC: 203-448-7	Flam. Gas 1, H220		[7]	
REACH: 01-2119474691-32			[,,]	
BUTANE (< 0,1 % 1,3 BUTADIENE)				
CAS: 109 87 5	GHS02	E	[1]	1 <= x % < 2.5
EC: 203-714-2	Dgr		[+]	1 \= A /0 \ 2.5
REACH: 01-2119664781-31	Flam. Liq. 2, H225			
METHYLAL				
INDEX: 013 002 00 1	GHS02	F	Ŧ	1 <= x % < 2.5
CAS: 7429-90-5	Dgr		[1]	
EC: 231-072-3	Water-react. 2, H261	R15		
REACH: 01-2119529243-45	Flam. Sol. 1, H228			
ALUMINIUM POWDER (STABILISED)				
Identification	(EC) 1272/2008		Note	%
EC: 918-167-1	GHS08, GHS02			10 <= x % < 25
REACH: 01-2119472146-39	Dgr			
	Flam. Liq. 3, H226			
HYDROCARBONS, C11-C12, ISOALKANES,	Asp. Tox. 1, H304			
< 2 % AROMATICS	EUH:066			
CAS: 106-97-8	GHS02		С	1 <= x % < 2.5
EC: 203-448-7	Dgr		[1]	
REACH: 01-2119474691-32	Flam. Gas 1, H220		[7]	
	Press. Gas, H280		[.,]	
BUTANE (< 0,1 % 1,3-BUTADIENE)				
CAS: 109-87-5	GHS02		[1]	1 <= x % < 2.5
EC: 203-714-2	Dgr		[-]	
REACH: 01-2119664781-31	Flam. Liq. 2, H225			
METHYLAL				
CAS: 7429-90-5	GHS02		Т	1 <= x % < 2.5
EC: 231-072-3	Dgr		[1]	/0 12.0
REACH: 01-2119529243-45	Flam. Sol. 1, H228		L ~ J	
ALUMINIUM POWDER (STABILISED)				

SILVER SPRAY - 089250-NFDT-EN

Date: 06/10/2015 Page 14/16

Revision: N°3 (24/02/2015)

CAS: 68439-50-9	GHS05, GHS09	0 <= x % < 1
EC: 500-213-3	Dgr	
REACH: 01-2119487984-16	Skin Corr. 1B, H314	
	Aquatic Chronic 3, H412	
ALCOHOLS, C12-14, ETHOXYLATED	Aquatic Acute 1, H400	
	M Acute = 1	

SECTION 4: FIRST AID MEASURES

In the event of swallowing:

Keep the person exposed at rest. Do not force vomiting.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity:

LC50 > 4951 mg/m3 Inhalation route (Dusts/mist):

BUTANE (< 0,1 % 1,3-BUTADIENE) (CAS: 106-97-8)

Inhalation route (n/a): LC50 > 10 mg/l

ALCOHOLS, C12-14, ETHOXYLATED (CAS: 68439-50-9)

LD50 > 2000 mg/kgOral route:

Species: Rat

ALUMINIUM POWDER (STABILISED) (CAS: 7429-90-5)

Oral route: LD50 > 2000 mg/kg

Species: Rat

Inhalation route (n/a): LC50 > 888 mg/m3

Species: Rat

LC50 > 4951 mg/m3 Inhalation route (n/a):

Skin corrosion/skin irritation:

Aluminium powder (stabilised): Not classified. Alcohols, C12-14, ethoxylated: Corrosive to skin.

Serious damage to eyes/eye irritation:

Alcohols, C12-14, ethoxylated: Causes serious eye damage.

Aluminium powder (stabilised): Not classified.

Respiratory or skin sensitisation:

Aluminium powder (stabilised): Not classified. Alcohols, C12-14, ethoxylated: Not sensitizing.

Germ cell mutagenicity:

ALCOHOLS, C12-14, ETHOXYLATED (CAS: 68439-50-9) ALUMINIUM POWDER (STABILISED) (CAS: 7429-90-5) BUTANE (< 0,1 % 1,3-BUTADIENE) (CAS: 106-97-8)

Carcinogenicity:

Alcohols, C12-14, ethoxylated: No known significant effects or critical hazards.

ALUMINIUM POWDER (STABILISED) (CAS: 7429-90-5)

BUTANE (< 0,1 % 1,3-BUTADIENE) (CAS: 106-97-8)

Reproductive toxicant:

Alcohols, C12-14, ethoxylated: No known significant effects or critical hazards.

ALUMINIUM POWDER (STABILISED) (CAS: 7429-90-5) BUTANE (< 0,1 % 1,3-BUTADIENE) (CAS: 106-97-8)

Specific target organ systemic toxicity - single exposure :

Aluminium powder (stabilised): Not classified

Specific target organ systemic toxicity - repeated exposure:

Aluminium powder (stabilised): Not classified.

SILVER SPRAY - 089250-NFDT-EN

Date: 06/10/2015 Page 15/16

Revision: N°3 (24/02/2015)

Aspiration hazard:

Aluminium powder (stabilised): Not classified.

SECTION 12: ECOLOGICAL INFORMATION

12.1.1. Substances

ALUMINIUM POWDER (STABILISED) (CAS: 7429-90-5)

LC50 = 1.16 mg/lFish toxicity: EC50 = 0.72 mg/lCrustacean toxicity: Algae toxicity: ECr50 = 0.0002 mg/l

12.2.1. Substances

ALCOHOLS, C12-14, ETHOXYLATED (CAS: 68439-50-9) BUTANE (< 0,1 % 1,3-BUTADIENE) (CAS: 106-97-8)

12.3. Bioaccumulative potential

Alcohols, C12-14, ethoxylated: No data available. Aluminium powder (stabilised): No data available.

12.4. Mobility in soil

Alcohols, C12-14, ethoxylated: No data available. Aluminium powder (stabilised): No data available.

12.5. Results of PBT and vPvB assessment

Alcohols, C12-14, ethoxylated: PBT/vPvB: No. Aluminium powder (stabilised): PBT/vPvB: No.

SECTION 14: TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2011-IMDG 2010 - ICAO/IATA 2012).

IMDG	(Class	2°La	bel	Pacl	k gr.	LQ	EMS	Provis.		EQ
	2.2		SP63	-		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	SP277	F-D,S-U	63 190 277 327	E0	
									959		

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2015 - IMDG 2014 - ICAO/IATA 2015).

2.2	Coo CP63	- See SP277	F-D,S-U	63 190 277 327	E0
				344 959	

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

SECTION 15: REGULATORY INFORMATION

- Classification and labelling information included in section 2:

-Directive 67/548/EEC and its adaptations

-Directive 1999/45/EC and its adaptations

-Directive 2008/47/EC

-Regulation EC 1272/2008 modified by regulation EC 286/2011

- Directive 75/734/CEE modified by directive 2013/10/UE
- EU Regulation No. 1272/2008 amended by EU Regulation No. 487/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 944/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 605/2014.

- Particular provisions :

Labelling following EU Regulation No. 517/2014:

Contains fluorinated greenhouse gases covered by the Kyoto Protocol: HFC-152a.

15.2. Chemical safety assessment

Alcohols, C12-14, ethoxylated

Aluminium powder (stabilised)

SILVER SPRAY - 089250-NFDT-EN

Date: 06/10/2015 Page 16/16

Revision: N°3 (24/02/2015)

SECTION 16: OTHER INFORMATION

Wording of the phrases mentioned in section 3:

H261 In contact with water releases flammable gases.

R-11 Highly flammable.
R-12 Extremely flammable.

R 15 Contact with water liberates extremely flammable gases.

R 65 Harmful: may cause lung damage if swallowed.

R-66 Repeated exposure may cause skin dryness or cracking.

H280 Contains gas under pressure; may explode if heated.

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.