Safety Data Sheet
H417 NORMAL HARDENER 4:1

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier

H417 NORMAL HARDENER 4:1
Contains: 4-chloro-α,α,α-trifluorotoluene
EUH204 Contains isocyanates. May produce an allergic reaction.

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

Hardener standard for clear coat C401 4:1 for car bodies

1.3. Details of the supplier of the safety data sheet

COMPANY IDENTITY:	Logicar Inc.
COMPANY ADDRESS:	1361 NW 155th DR
COMPANY CITY:	Miami, FL 33169
COMPANY PHONE:	305-685-8044

1.4. Emergency telephone number

CHEMTREC: +1(703)527-3887

Section 2: Hazards identification

2.1. Classification of the substance or mixture

The product was classified as dangerous according to Regulation 1272/2008/EC
Classification:
Flam. Liq. 2 H226
Skin Irrit. 2 H315
Skin Sens. 1 H317
Eye Irrit. 2 H319
Acute Tox. 4 H332
STOT SE 3 H335
Aquatic Chronic 3 H412

2.2. Label elements

According to Regulation 1272/2008/EC

Signal word : WARNING

Hazard statements:
H226 Flammable liquid and vapour
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H319Causes serious eye irritation
H332 Harmful if inhaled
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking

Precautionary statements:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe vapours/spray.
P273 Avoid release to the environment
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off 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..
P501 Dispose of contents/container to an authorized waste collection point.
2.3 Other hazards – no available

Section 3: Composition/information on ingredients

3.2. Mixtures

Index number	Chemical Name	WE Number	CAS Number	Classification of substance according to CLP	Mark of substance	Weight	Registration Number
-	1,6-Hexamethylene diisocyanate monomer; homopolymer	500-060-2	28182-81-2	Skin Sens. 1 H317 Acute Tox. 4 H332 STOT SE 3 H335	GHS07 Wng H317, H332, H335	60 – 70%	01-2119485796-17-0000
-	4-chloro-α,α,α-trifluorotoluene	202-681-1	98-56-6	Flam. Liq. 3 H226 Eye Irrit. 2 H319 STOT SE 3 H335 Skin Irrit. 2 H315 Aquatic Chronic 3 H412	GHS02 GHS07 H226, H315, H319, H335, H412	20 – 30%	01-2119857280-40-XXXX
607-021-00-X	Methyl acetate	201-185-2	79-20-9	Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336	GHS02 GHS07 Dgr H225, H319, H336, EUH066	0 – 10%	01-2119459211-47-XXXX

Section 4: First aid measures

4.1. Description of first aid measures

General information:	See 11 point SDS
Inhalation:	Move to fresh air, ensure quiet and warmth, and seek medical advice.
Eyes contact:	Do not close the eye, rinse with plenty of water (protect) healthy eye, remove contact lenses, seek medical advice.
Skin contact:	Immediately remove all contaminated clothing, wash with plenty of water with soap, and seek medical advice.
Ingestion:	Wash out mouth thoroughly with water. Drink 2-4 glasses of water. Do not induce the vomiting.

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

Seek medical advice.

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

Seek medical advice.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media:	Water, vaporised water, foam, CO_2.
Unsuitable extinguishing media:	Tight stream of water.

5.2. Special hazards arising from the substance or mixture

Under the influence of high temperature may produce CO, CO_2, and isocyanate vapours.

5.3. Advice for fire-fighters

Firemen have to wear self-contained breathing apparatus and protective clothing. Cool adjacent tanks by spraying water from a safe distance.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:	Remove ignition sources. Provide for sufficient ventilation. Avoid direct contact with releasing substance (vapours). Avoid contact with eyes and skin. Get acquainted with safety conditions (see point 7 and 8 SDS).
For emergency responders:	

6.2. Environmental precautions

Keep away from drains, surface-water, ground-water and soil.

6.3. Methods and material for containment and cleaning up

Poured substance should be absorbed with non-flammable materials: sand, silica, special granulated products. Keep to a minimum efflux area. Collect discards, store according to regulations (see point 13 SDS).

Section 7: Handling and storage

7.1. Precautions for safe handling

Keep away from heat; keep away from sources of ignition – do not smoke, do not eat, do not drink, do not breathe vapour, avoid contact with skin and eyes. Do not empty under pressure. Use only original tanks.

7.2. Conditions for safe storage, including any incompatibilities

Normal precautions taken when handling flammable substances. Store in hermetically closed containers in temp. 5-25°C. Place of storage should be dry. Protect from heat. Do not store near to sources of ignition.

7.3. Specific end use(s)

Hardener standard for clear coat C401 4:1 for car bodies.

Section 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Respiratory protection:	Gas mask with “A” type absorbing canister.
Hands protection:	Protective gloves for handling solvents (nitrile rubber).
Eyes protection:	Protective glasses.
Skin protection:	Suitable protective clothing.
Workplace:	Topical stays and exhausting ventilation.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:
liquid

Colour:
colourless

Odour:
typical mixture of solvents

pH:
no data

Boiling point:
> 56°C

Melting point:
no data

Flash point:
< 0°C

VOC Actual:
0 g/l, 0 lbs/gal

Autoignition point:
no data

Vapour pressure:
no data

Explosion limits:
no data

Density:
1,183 g/cm^3

Water solubility:
very poor

Octanol/Water partition coeff:
no data

Viscosity:
No data

VOC Regulatory:
0 g/l, 0 lbs/gal

Section 10: Stability and reactivity

10.1. Reactivity

No data.

10.2. Chemical stability

If handled according to the section 7 product is stable.

10.3. Possibility of hazardous reactions

No data.

10.4. Conditions to avoid

Strong acids and basis, high temperature, fire.

10.5. Incompatible materials

No data.

10.6. Hazardous decomposition products

Incomplete combustion will produce CO, CO2 and toxic gases.

Section 11: Toxicological information

11.1. Information on toxicological effects

There are no data on the toxicity of this product.

Toxicity for 4-chloro-α,α,α-trifluorotoluene	LD_{50} (rat, oral) – 6400 mg/kg LC_{50} (rat, inhalation) – 9,6 mg/l (4h) LD_{50} (rabbit, skin) – >5000 mg/kg
Toxicity for Methyl acetate:	LD_{50} (rat, oral) – 5000 mg/kg LD_{50} (rat, skin) – 2000 mg/kg LC_{50} (rat, inhalation) > 49mg/l (4h)
Irritating effect:	Skin: prolonged or repeated exposure may result in drying of the epidermis, loss of the protective fat layer and permeation of the harmful substances to the subcutaneous layer. Eyes: irritation of the mucosa and irreversible changes in the eye

Symptoms / routes of exposure

Headaches, tiredness, muscle failure, partial or total loss of consciousness.

Section 12: Ecological information

12.1. Toxicity

There are no data on the ecotoxicity of this product.

Methyl acetate acute toxicity for:	(LC_{50}/96 h) fish –320 mg/l (EC_{50}/48h) crustacea – 1026,7 mg/l
4-chloro-α,α,α-trifluorotoluene acute toxicity for:	(LC_{50}/96 h) fish – 15,9 – 22,9 mg/l (EC_{50}/48h) crustacea – 3,68 mg/l

The product is very poorly soluble in water. Do not allow to enter the sewage system, soil, or water reservoirs – inform the local authorities.

Section 13: Disposal considerations

13.1. Waste treatment methods

Recommendation:	Product must be disposed of by special means in accordance with local regulations.

Remains of product:	Remains of product in the tin should be carefully remove clearcoat C401 4:1 to harden. Harden product is not harmfully substance and could be treat like wastes in accordance with regulation. Code of waste: 08 05 01* Do not spill into drainage systems. Waste of this product must be burned in special installations for this purpose or dispose for authorized waste receiver.
Clean tin:	Tin carefully clean is not harmful waste. Code of waste : 15 01 04 Spent packages dispose for authorized receiver who has adequate permission for waste management.
Tin partly empty:	See remains of products. Packs of an article containing residues of hazardous substances or contaminated by a hazardous waste code 15 01 10*

Section 14: Transport information

14.1. UN number

1263

14.2. UN proper shipping name

PAINT RELATED MATERIAL

14.3. Transport hazard class(es)

3

14.4. Packing group

II

14.5. Environmental hazards

No applicable.

14.6. Special precautions for user

Land transport: ADR/RID:
Classification code: F1
Tunnels: D1E
Sea transport IMDG: EmS: F-E, S-E

Section 15: Regulatory information

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

67/548/EWG (2006/121/WE)
91/155/EWG (2001/58/WE)
1999/45/EC (2006/8/WE)
1991/322/EWG
2000/39/WE
2006/15/WE
2006/1907/WE (REACH)
2004/42/WE
2008/1272/WE (CLP)
Other regulations: ADR (2007-2009), IMDG Code 2006 Edition.
15.2 Chemical safety assessment – no chemical safety assessment has been carried out.

Section 16: Other information

Other information

Full text of phrases from 3 point SDS according to CLP
H225 Very flammable liquid and vapour
H226 Flammable liquid and vapour
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H332 Harmful if inhaled
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness
H412 Harmful to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking
Flam. Liq. 2 Flammable liquid category 2
Flam. Liq. 3 Flammable liquid category 3
STOT SE 3 Specific target organ toxicity – single exposure category 3
Acute Tox. 4* Acute toxicity category 4
Eye Irrit. 2 Eye irritation category 2
Aquatic Chronic 3 Hazardous to the aquatic environment category 3
Skin Irrit. 2 Skin irritation category 2
Skin Sens. 1 Skin sensitization category 1

The data contained in this Safety Data Sheet are based on our available knowledge at the last revision date. The data contained in this Safety Data Sheet give the conditions of safe use and storage of the product; this document does not give any guarantee as to the properties of the product.
Revision information: sections -
All persons whose work is related to the mixture should receive a proper training in safety, hygiene and legal requirements related to a mixture in compliance with their responsibilities.

Revision Date: 05/29/2019
Revision Number: 2