

MCCL591 ELECTRICAL CONTACT CLEANER**1.- COMPANY AND PRODUCT IDENTIFICATION****PRODUCT NAME:** MCCL591ELECTRICAL CONTACT CLEANER**RELATED CODE:** MS-109**PRODUCT DESCRIPTION:** Mixture of Light Aliphatic Solvent Naphtha (Petroleum)

Unable to declare the manufacturer information (corporate policy)

SOLD DISTRIBUTOR: MISUMI (THAILAND) CO., LTD (Head Office)300/24 Moo 1 Estern Seaboard Industrial Estate Soi 5, T.Tasith ,
A.Pluakdaeng , Rayong 21140**INFORMATION (LOCAL)** 1382**EMERGENCY PHONE NUMBER:** 1382**2.- HAZARDOUS INGREDIENTS**

Name	CAS Number	Percentage
Liquefied Petroleum Gas	68476-86-8	20 – 30 %
Nephtha (petroleum),hydrotreated light	64742-49-0	20 – 30 %
n-hexane	110-54-3	10 – 20 %
Isopropyl alcohol n-	67-63-0	1 – 3 %
pentane	109-66-0	1 – 3 %

3.- CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE	LIQUID
COLOR	CLEAR
DENSITY	0.72 g/ml estimated
BOILING POINT	> 50 °C estimated
VISCOSITY @40 °C	N/A
FLASH POINT (CCCP)	<-17.8 °C
FREEZING POINT	-85 °C estimated
VAPOR PRESSURE (hPa)	2095
WATER SOLUBILITY	NOT SOLUBLE

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4.- HEALTH HAZARD INFORMATION**MAIN HAZARDS:**

- CAN CAUSE EYE AND SKIN IRRITATION.
- CONTENTS UNDER PRESSURE, KEEP AWAY FROM HEAT AND FLAMES.
- DO NOT INCINERATE, PUNCTURE OR KEEP CONTAINER AT TEMPERATURES HIGHER THAN 50°C

HEALTH HAZARDS

EXPOSURE TO THIS PRODUCT CAN OCCUR THROUGH INHALATION, INGESTION, AND SKIN AND EYE CONTACT.

POTENTIAL HEALTH EFFECTS, SKIN

SIGNIFICANT EFFECTS ARE NOT EXPECTED BECAUSE OF SHORT-TERM EXPOSURE. PROLONGED OR REPEATED CONTACT WITH GREAT QUANTITIES OF THIS PRODUCT MAY RESULT IN REDNESS AND SKIN IRRITATION.

POTENTIAL HEALTH EFFECTS, EYES

MAY CAUSE MILD IRRITATION AND TEARING. PROLONGED OR REPEATED EXPOSURE MAY CAUSE IRRITATION.

POTENTIAL HEALTH EFFECTS, INHALATION

INHALATION TOXICITY IS LOW. BREATHING SMALL QUANTITIES DURING HANDLING MAY NOT CAUSE NEGATIVE EFFECTS. BREATHING GREAT QUANTITIES OF MISTS OF VAPORS MAY BE HARMFUL.

EXPOSURE TO GREAT QUANTITIES MAY CAUSE RESPIRATORY TRACT IRRITATION.

POTENTIAL HEALTH EFFECTS, INGESTION

IN SMALL DOSES TOXICITY IS LOW. INGESTION OF LARGE QUANTITIES MAY CAUSE GASTROINTESTINAL IRRITATION.

5.- FIRST AID

EYE CONTACT: IMMEDIATELY WASH EYES WITH PLENTY WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS.

SKIN CONTACT: IMMEDIATELY WASH SKIN WITH PLENTY OF NEUTRAL SOAP AND WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. WASH CLOTHING SEPARATELY BEFORE REUSE. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS.

INHALATION: REMOVE PERSON TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET IMMEDIATE MEDICAL ATTENTION.

INGESTION: DO NOT INDUCE VOMITING. GIVE AT LEAST 3- 4 GLASSES OF WATER. GET IMMEDIATE MEDICAL ATTENTION.

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NEVER GIVE ANYTHING IN THE MOUTH TO AN UNCONSCIOUS PERSON.

6.- FIRE AND EXPLOSION INFORMATION

FLAMMABILITY CATEGORY

NFPA 30: AEROSOL LEVEL 3
FLAME EXTENSION: > 18”
EXTREMELY FLAMMABLE (16 CFR 1500.45)

FLASH POINT: N/D

FLAMMABILITY LIMITS IN AIR, LOWER, % BY VOLUME: N/D

FLAMMABILITY LIMITS IN AIR, UPPER, % BY VOLUME: N/D

EXTINGUISHING MEDIA: ALCOHOL FOAM, CO₂, DRY CHEMICAL FOAM, WATER FOG.

PERSONAL PROTECTION: FIREFIGHTERS MUST WEAR NIOSH APPROVED POSITIVE PRESSURE BREATHING APPARATUS (SCBA) WITH FULL FACE MASK AND FULL PROTECTIVE EQUIPMENT.

SPECIAL FIREFIGHTING PROCEDURES: COOL CONTAINERS EXPOSED TO FIRE DURING AND AFTER FIRE TO PREVENT EXPLOSIONS. WATER STREAMS OF WATER WATER RUNOFF CAN CAUSE ENVIRONMENTAL DAMAGE. DIKE AND COLLECT WATER USED TO FIGHT FIRE. WATER

HAZARD COMBUSTION PRODUCTS: CO_x AND OTHER INCOMPLETE COMBUSTION PRODUCTX.

7.- ACCIDENTAL SPILLS OR LEAKS

PROCEDURE IN CASE OF SPILLS OR LEAKS

THE FOLLOWING STEPS SHOULD BE FOLLOWED IN CASE MATERIAL IS RELEASED OR SPILLED: PERSON NOT WEARING PROTECTIVE EQUIPMENT AND CLOTHING SHOULD BE RESTRICTED FROM CONTAMINATED AREAS UNTIL HAS BEEN COMPLETED.

1. DO NOT TOUCH THE SPILLED MATERIAL; STOP THE LEAK IF IT IS POSSIBLE TO DO SO WITHOUT RISK.
2. NOTIFY SAFETY PERSONNEL.
3. REMOVE ALL SOURCES OF HEAT AND IGNITION.
4. VENTILATE POTENTIALLY EXPLOSIVE ATMOSPHERES USING MAXIMALLY EXPLOSION-PROOF EQUIPMENT.
5. USE NONSPARKING TOOLS FOR CLEANUP.
6. WATER SPRAY MAY BE USED TO REDUCE VAPORS, BUT THE SPRAY MAY NOT PREVENT IGNITION IN CLOSED SPACES.
7. FOR SMALL LIQUID SPILLS, TAKE UP WITH SAND OR OTHER NONCOMBUSTIBLE ABSORBENT MATERIAL AND PLACE INTO CLOSED CONTAINERS FOR LATER DISPOSAL.

FOR LARGE LIQUID SPILL, BUILD DIKES FAR AHEAD OF THE SPILL TO CONTAIN THE MATERIAL FOR LATER RECLAMATION OR DISPOSAL

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DISPOSAL

CARE MUST BE TAKEN WHEN USING OR DISPOSING OF CHEMICAL MATERIALS AND/OR THEIR CONTAINERS TO PREVENT ENVIRONMENTAL CONTAMINATION.

DISPOSAL CAN OCCUR ONLY IN PROPERLY PERMITTED FACILITIES. CHECK STATE AND LOCAL REGULATIONS FOR ANY ADDITIONAL REQUIREMENTS AS THESE MAY BE MORE RESTRICTIVE THAN FEDERAL LAWS AND REGULATIONS. CHEMICAL ADDITIONS, PROCESSING OR OTHERWISE ALTERING THIS MATERIAL MAY MAKE THE WASTE MANAGEMENT INFORMATION PRESENTED IN THIS MSDS INCOMPLETE, INACCURATE OR OTHERWISE INAPPROPRIATE. DISPOSAL OF THIS MATERIAL MUST BE CONDUCTED IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

8.- HANDLING AND STORAGE

STORAGE PROCEDURES: KEEP MATERIAL AWAY FROM HEAT, ELECTRIC ARCS, STATIC ELECTRICITY AND FIRE. AVOID BREATHING VAPORS. KEEP CONTAINERS CLOSED WHEN NOT IN USE. WASH HANDS AFTER HANDLING. EMPTY CONTAINERS MAY CONTAIN MATERIAL. DO NOT CUT, WELD, PUNCTURE OR EXPOSE CAN TO HEAT, FLAMES OR OTHER IGNITION SOURCES.

DO NOT EAT, DRINK OR SMOKE IN STORAGE AREAS.

HANDLING: AVOID BREATHING VAPORS OR FUMES, AVOID EYE OR SKIN CONTACT. USE WITH ADEQUATE VENTILATION. WASH HANDS AFTER HANDLING. OBEY LABEL INSTRUCTIONS UNTIL CAN IS DESTROYED.

9.- EXPOSURE CONTROL/PERSONAL PROTECTION

VENTILATION: USE LOCAL VENTILATION.

SKIN PROTECTION: NOT NECESSARY UNDER NORMAL USE. **EYE**

PROTECTION: NOT NECESSARY UNDER NORMAL USE. **RESPIRATORY**

PROTECTION: NOT NECESSARY UNDER NORMAL USE.

10.- REACTIVITY AND STABILITY

STABILITY: THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.

INCOMPATIBILITY: AVOID CONTACT WITH STRONG OXIDIZING AGENTS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR UNDER NORMAL CONDITIONS.

HAZARDOUS DECOMPOSITION PRODUCTS: COMBUSTION MAY FORM CARBON DIOXIDE, CARBON MONOXIDE, SULFURIC ACID, POSSIBLE TRACES OF PHOSGENE.

CONDITIONS TO AVOID: HEAT, SPARKS, OPEN FLAMES, HOT GLOWING SURFACES OR ELECTRIC ARCS.

11.- TOXICITY INFORMATION

naphtha (petroleum),hydrotreated light
Dermal LD50 Rabbit >2000 mg/kg

n-hexane
Dermal LD50 Rabbit >1300 mg/kg
Oral LD50 Rat >15840 mg/kg

Isopropyl Alcohol
Dermal LD50 Rabbit >13900 mg/kg
Inhalation LC50 Rat >16000 ppm,4 hours
Oral LD50 Rat >4700 mg/kg n-pentene
Inhalation Vapor LC50 Rat >364 mg/m³, 4 hours
Oral LD50 Rat > 2000 mg/kg

12.- EXPOSURE LIMITS

naphtha (petroleum), hydrotreated light
PEL 400 PPM
100 mg/m³

n-hexane
PEL 100 PPM
1800 mg/m³

Isopropyl Alcohol
PEL 500 PPM
980 mg/m³ n-

pentene
PEL 2950 PPM
1000 mg/m³

PEL : Permissible Exposure Limits OSHA

13.- SIGNAL AND LABEL INFORMATION

GHS LABEL:



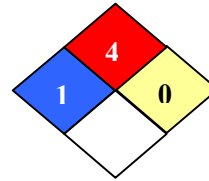
NFPA CODE: HEALTH: 1; FIRE: 4; REACTIVITY: 0.

HMIS CODE: HEALTH: 1; FIRE: 4; REACTIVITY: 0.

PRECAUTION LABELS

DANGER

- EXTREMELY FLAMMABLE.
- CONTENTS UNDER PRESSURE, DO NOT PUNCTURE CONTAINER OR EXPOSE TO HEAT, SPARKS OR FLAMES.
- DO NOT STORE AT TEMPERATURES HIGHER THAN 121 °F.
- KEEP OUT OF THE REACH OF CHILDREN.
- VAPOR HARMFUL.
- HARMFUL OR FATAL IF SWALLOWED.



14.- SHIPPING INFORMATION

14.1 UN number	UN1950
14.2 UN proper shipping name	Aerosols, flammable, Limited Quantity
14.3 Transport hazard class (es)	2.1
14.4 Packaging group	not established
14.5 Environmental hazards	not available
14.6 Transport in bulk	not available
14.7 Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

15.- REGULATORY INFORMATION

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

Thai regulations

Chemical hazard as the Ministry for industry list : Not established

Chemical hazard as Department of Labor Protection and Welfare list : Not established

15.2 Chemical Safety Assessment : Not be implemented

16.- ADDITIONAL INFORMATION

1. Chemical hazard list (5.1) as Thai Ministry for industry, 2013 (2556)
2. Chemical hazard list as Thai Department of Labour Protection and Welfare, 2013 (2556)
3. <https://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB>
4. <tp://www.osha.gov/dts/chemicalsampling/toc/chmcas.html>
5. <http://www.epa.govt.nz/search-databases/Pages/HSNO-CCID.aspx>

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