MODE D'EMPLOI - GB

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

· **Date of issue:** 30.03.2012
· **1.1 Product identifier**

· **Trade name:** **PVC-Cold-Welding Liquid Type A, PVC-Cold-Welding Paste Type C, PVC-Cold-Welding Paste Type T**
· **Registration number:** EC: 203-726-8 REACH: 01-2119444314-46-XXXX
· **1.2 Relevant identified uses of the substance or mixture and uses advised against**

· **Application of the substance / the preparation:**
Seam sealing of PVC-Floor- and Wallcoverings, PVC-Foils and any other PVC-Materials.

· **1.3 Details of the supplier of the safety data sheet**
· **Manufacturer / Supplier:**

Romus
13/15, rue du Taillefer, ZA Les Pouards
91160 CHAMPLAN - France
Tel. +33(0) 1 69 79 69 77
http://www.romus.org/

· **E-mail address of the competent person responsible for the Safety Data Sheet:** welcome@romus.fr

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**
· **Classification according to Regulation (EC) No 1272/2008**


GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.


GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H335 May cause respiratory irritation.
· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

Xi; Irritant

R36/37: Irritating to eyes and respiratory system.


F; Highly flammable

R11: Highly flammable.

R19: May form explosive peroxides.
· **Information concerning particular hazards for human and environment:**
Vapours of the product are heavier than air and may accumulate on the ground, in mines, drains or cellars with higher concentration.
Heightened risk of fire and danger of explosion at accumulation in lower-lying or closed rooms.
· **Classification system:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· ***2.2 Label elements***
· ***Labelling according to Regulation (EC) No 1272/2008***
The product is classified and labelled according to the CLP regulation.
· ***Hazard pictograms***

GHS02 GHS07

· ***Signal word*** *Danger*
· ***Hazard statements***
H225+EUH019 Highly flammable liquid and vapour. May form explosive peroxides.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
· ***Precautionary statements***
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P243 Take precautionary measures against static discharge.
P233 Keep container tightly closed.
P261 Avoid breathing vapours.
P303+P361+P353 IF ON SKIN (or hair): Remove/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.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
· ***2.3 Other hazards***
· ***Results of PBT and vPvB assessment***
· ***PBT:*** *Not applicable.*
· ***vPvB:*** *Not applicable.*

SECTION 3: Composition/information on ingredients

· ***3.2 Chemical characterization: Mixtures***
· ***Description:*** *Mixture of the substances listed below with nonhazardous additions.*

· ***Dangerous components:***

CAS: 109-99-9 *EINECS: 203-726-8* *Index number: 603-025-00-0*	*Tetrahydrofuran* *Xi R36/37; F R11* *R19* *Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H335*	*75-95%*

· ***Additional information:*** *For the wording of the listed risk phrases refer to section 16.*

SECTION 4: First aid measures

· ***4.1 Description of first aid measures***
· ***General information:***
Take affected persons out of danger area and instruct to lie down.
Immediately remove any clothing contaminated by the product.
Call a POISON CENTER or doctor/physician if you feel unwell.
· ***After inhalation:*** *Supply fresh air; consult doctor in case of symptoms.*
· ***After skin contact:***
Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.
· ***After eye contact:*** *Rinse opened eye for several minutes under running water. Then consult doctor.*
· ***After swallowing:***
Do not induce vomiting; instantly call for medical help.
Rinse out mouth and then drink plenty of water.
· ***4.2 Most important symptoms and effects, both acute and delayed*** *Dazed*
· ***4.3 Indication of any immediate medical attention and special treatment needed***
No further relevant information available.

SECTION 5: Firefighting measures

· ***5.1 Extinguishing media***
· ***Suitable extinguishing agents*** *CO_2, sand, extinguishing powder. Do not use water.*
· ***For safety reasons unsuitable extinguishing agents*** *Water with a full water jet.*
· ***5.2 Special hazards arising from the substance or mixture***
Can be released in case of fire:
Carbon monoxide (CO) and Carbon dioxide (CO_2)
Hydrogen chloride (HCl)
Can form explosive vapour-air mixtures.
· ***5.3 Advice for firefighters***
· ***Protective equipment:*** *Wear self-contained breathing apparatus.*
· ***Additional information***
Cool endangered containers with water spray jet.
Collect contaminated fire fighting water separately. It must not enter drains.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

· ***6.1 Personal precautions, protective equipment and emergency procedures***
Wear protective clothing.
Ensure adequate ventilation.
Remove all ignition sources.
Avoid contact with skin and eyes.
· ***6.2 Environmental precautions:***
Do not allow product to reach sewage system or water bodies.
Inform respective authorities in case product reaches water or sewage system.
· ***6.3 Methods and material for containment and cleaning up:***
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of the material collected according to regulations.
Ensure adequate ventilation.
Send for recovery or disposal in suitable containers.
· ***6.4 Reference to other sections*** *See Section 8 for information on personal protection equipment.*

SECTION 7: Handling and storage

· ***7.1 Precautions for safe handling***
Ensure good ventilation/exhaustion at the workplace.
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
Make sure that all applicable workplace limits are observed.
Open and handle container with care.
Prevent formation of aerosols.
Avoid contact with skin and eyes.
· ***Information about protection against explosions and fires:***
Fumes can combine with air to form an explosive mixture.

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Use explosion-proof apparatus / fittings and spark-proof tools.

· ***7.2 Conditions for safe storage, including any incompatibilities***
· ***Storage***
· ***Requirements to be met by storerooms and containers:***
Store only in the original container.
Store in cool location.
Observe regulations for storage of flammable liquids.
Observe all local and national regulations for storage of water polluting products.
· ***Information about storage in one common storage facility:*** *Store away from foodstuffs.*
· ***Further information about storage conditions:***
Protect from overexposure to light.
Store in cool, dry conditions in well sealed containers.
Store container in a well ventilated position.
Avoid contact with air / oxygen.(formation of peroxide).
Store in a locked cabinet and out of the reach of children.
· ***Maximum storage temperature:*** *30°C*
· ***Minimum storage temperature:*** *≥ 0 °C*
· ***Recommended storage temperature:*** *25°C*
· ***7.3 Specific end use(s)*** *No further relevant information available.*

SECTION 8: Exposure controls/personal protection

· ***Additional information about design of technical systems:*** *No further data; see item 7.*

· ***8.1 Control parameters***

· ***Components with critical values that require monitoring at the workplace:***	
109-99-9 Tetrahydrofuran	
WEL (Great Britain)	*Short-term value: 300 mg/m³, 100 ppm* *Long-term value: 150 mg/m³, 50 ppm* *Sk*
IOELV (European Union)	*Short-term value: 300 mg/m³, 100 ppm* *Long-term value: 150 mg/m³, 50 ppm* *Skin*

· ***Additional information:*** *The lists that were valid during the compilation were used as basis.*

· ***8.2 Exposure controls***
· ***Personal protective equipment***
· ***General protective and hygienic measures***
Keep away from foodstuffs, beverages and food.
Instantly remove any contaminated garments.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
Wash hands during breaks and at the end of the work.
· ***Breathing equipment:***
If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.
Filter AX
· ***Protection of hands:***
Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
· ***Material of gloves***
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the

application.
· **Penetration time of glove material**
For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3: Level 6).
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **As protection from splashes gloves made of the following materials are suitable:**
Fluorocarbon rubber (Viton) - FKM
Nitrile rubber - NBR
Butyl rubber - BR
· **Eye protection:** Tightly sealed safety glasses
· **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	liquid
Colour:	colourless
· **Smell:**	ether-like
· **Odour threshold:**	no data available
· **pH-value:**	not applicable
· **Change in condition**	
Melting point/Melting range:	-108.5°C
Boiling point/Boiling range:	65°C (DIN 51751)
· **Flash point:**	-21°C (DIN 51755)
· **Ignition temperature:**	230°C (DIN 51794)
· **Self-inflammability:**	Product is not selfigniting.
· **Danger of explosion:**	May form explosive peroxides.
· **Critical values for explosion:**	
Lower:	1.5 %
Upper:	12.0 %
· **Oxidizing properties**	not classified as oxidising
· **Vapor pressure at 20°C:**	200 hPa
· **Density at 20°C:**	0.9 - 1.0 g/ml
· **Solubility in / Miscibility with**	
Water:	partly miscible
· **Viscosity:**	
dynamic at 20°C:	40 - 1000 mPas
Organic solvents:	75 - 95 %
· **9.2 Other information**	No further relevant information available.

SECTION 10: Stability and reactivity

· **10.1 Reactivity**
· **10.2 Chemical stability**
· **Thermal decomposition / conditions to be avoided:**
Avoid impact, friction, heat, sparks, electrostatic charges.

No decomposition if used according to specifications.
· ***10.3 Possibility of hazardous reactions***
Possible formation of peroxide
Flammable vapour-air mixtures may develop.
Forms explosive gases / fumes
Develops readily flammable gases / fumes
· ***10.4 Conditions to avoid*** *No further relevant information available.*
· ***10.5 Incompatible materials:***
Strong oxidizing agents
Alkaline materials
· ***10.6 Hazardous decomposition products:***
Carbon monoxide (CO) and Carbon dioxide (CO_2)
Hydrogen chloride (HCl)

SECTION 11: Toxicological information

· ***11.1 Information on toxicological effects***
· ***Acute toxicity:***

· ***LD/LC50 values that are relevant for classification:***		
109-99-9 Tetrahydrofuran		
Oral	*LD50*	*4430 mg/kg (rat)* *BASF-Test*
Dermal	*LD50*	*> 2000 mg/kg (rat)*
Inhalative	*LC50/4 h*	*> 14.7 mg/l (rat)*

· ***Primary irritant effect:***
· ***on the skin:*** *Long or repeated contact can defat skin and may cause dermatitis.*
· ***on the eye:*** *Causes serious eye irritation.*
· ***Additional toxicological information:***
The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
Irritant
· ***Sensitisation*** *No sensitizing effect known.*

SECTION 12: Ecological information

· ***12.1 Toxicity***

· ***Aquatic toxicity:***	
109-99-9 Tetrahydrofuran	
EC50/16 h	*> 580 mg/l (pseudomonas putida)*
EC50/24 h	*5930 mg/l (water flea (daphnia magna))*
LC50/96 h	*2160 mg/l (fathead minnow (pimephales promelas))*

· ***12.2 Persistence and degradability*** *Not easily biodegradable*
· ***12.3 Bioaccumulative potential*** *No further relevant information available.*
· ***12.4 Mobility in soil*** *No further relevant information available.*
· ***Additional ecological information:***
· ***General notes:*** *Water hazard class 1 (Self-assessment): slightly hazardous for water*
· ***12.5 Results of PBT and vPvB assessment***
· ***PBT:*** *Not applicable.*
· ***vPvB:*** *Not applicable.*
· ***12.6 Other adverse effects*** *No further relevant information available.*

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**
· **Recommendation**
Hand over to disposers of hazardous waste.
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue:**	
08 04 09*	waste adhesives and sealants containing organic solvents or other dangerous substances

· **Uncleaned packagings:**
· **Recommendation:**
Disposal must be made according to official regulations.
Non contaminated packagings can be treated like household garbage.
Packagings that cannot be cleaned are to be disposed of in the same manner as the product.
· **Recommended cleaning agent:** Water, if necessary with cleaning agent.

SECTION 14: Transport information

· **14.1 UN-Number**	
· **ADR, IMDG, IATA**	UN1133
· **14.2 UN proper shipping name**	
· **ADR**	1133 ADHESIVES, Special provision 640D
· **IMDG, IATA**	ADHESIVES
· **14.3 Transport hazard class(es)**	
· **ADR**	

· **Class**	3 (F1) Flammable liquids.
· **Label**	3
· **IMDG, IATA**	

· **Class**	3 Flammable liquids.
· **Label**	3
· **14.4 Packing group**	
· **ADR, IMDG, IATA**	II
· **14.5 Environmental hazards:**	
· **Marine pollutant:**	NO
· **14.6 Special precautions for user**	Warning: Flammable liquids.
· **Kemler Number:**	33
· **EMS Number:**	F-E,S-D
· **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **Transport/Additional information:**	Transport by post may be prohibited or restricted.

· **ADR**	
· **Excepted quantities (EQ):**	E2
· **Limited quantities (LQ):**	5L
· **Transport category:**	2
· **Tunnel restriction code:**	D/E
· **UN "Model Regulation":**	UN1133, ADHESIVES, Special provision 640D, 3, II

SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
· **Hazard pictograms**

GHS02 GHS07

· **Signal word** Danger
· **Hazard statements**
H225+EUH019 Highly flammable liquid and vapour. May form explosive peroxides.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
· **Precautionary statements**
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P243 Take precautionary measures against static discharge.
P233 Keep container tightly closed.
P261 Avoid breathing vapours.
P303+P361+P353 IF ON SKIN (or hair): Remove/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.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.

· **National regulations**

· **Information about limitation of use:**
Employment restrictions concerning pregnant and lactating women must be observed.
Employment restrictions concerning young persons must be observed.

· **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water
· **VOC (EU):** 75 - 95 %
· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**
The(se) R- resp. H-phrase(s) are those of the ingredient(s) and do(es) not necessarily represent the classification of the preparation.

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

R11 Highly flammable.
R19 May form explosive peroxides.
R36/37 Irritating to eyes and respiratory system.

· ***Abbreviations and acronyms:***
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

GB