

FORMULATION BOOK -2025



McDoman Chemicals

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INTRODUCTION

The need for soap, a cleansing agent, has been felt ever since man became aware of the necessity to clean his body and environment in the primitive ages. Soap has therefore acquired the status of a basic necessity in the modern civilized world

McDoman Chemicals offers training with the objective of equipping beneficiaries with the basic knowledge and skills in appropriate soap/detergent production.

The training focus on micro and small scale soap processing technologies which can easily be replicated by the trainees at the smallest scale yet under strict safety and hygienic conditions.

Soap making can be an income generating opportunity, job creation and an improvement in economical and social well being of the individuals and communities at large.

People can create a sustainable business from soap making on either a small or large scale.

Raw Material Bases

Raw Material Bases are the best easy way to manufacture cleaning products. This doesn't only reduce your cost of production but also no need to source different raw products from different suppliers in quantities you may not need cause of minimum order quantities.

You only buy the exact raw material base for the quantity you need to manufacture hence no residue raw materials, this makes your production to be more effective and less time consuming but at the same time producing a superior high quality product.



"Quality That Counts"

Airfreshner Base	Suitable for manufacturing of liquid air freshener. Customize the colour and fragrances according to your choice
Aluminium Cleaner Base	Suitable for Aluminium Cleaner manufacturing
Ammonia Cleaner Base (HAB)	Suitable for manufacturing of ammonia general purpose cleaner that does perfect job
Antibacterial Hand soap Base	Base Suitable for manufacturing of antibacterial hand soap
Black Dip Base	Black dip base for easy manufacturing of black dip. The most cost effective way of producing black dip.
Black Primal	Suitable for manufacturing black tyre polish. This type of polish shines and its non dust on tyres.
Body Perfume Base	Manufacturing of Body Perfumes
Car Shampoo Base	Suitable for manufacturing car shampoo. Neutralized product and doesn't cause paint work damage
Car Wash & Wax Base	Suitable for manufacturing car wash & wax which contains waxes for shining vehicle body. Neutralized product and doesn't cause paint work damage
Carpet High Foam Liquid Base	Suitable for manufacturing, high foam carpet shampoo
Carpet High Foam Powder Base	Suitable for manufacturing, high foam carpet shampoo
Carpet Spot Remover Liquid Base	Suitable for Manufacturing Carpet Spot remover cleaner
Carpet Spot Remover Powder Base	Suitable for Manufacturing Carpet Spot remover cleaner
Dash shine Base	Suitable for manufacturing of water based dash shine that shines vehicle dash boards and bumpers
Degreaser Liquid Base	Suitable for manufacturing of water based degreaser
Degreaser Powder Base	Suitable for manufacturing of water based degreaser
Supreme Dishwasher Base	Suitable for manufacturing of high quality thick dishwasher
Delux Dishwasher Base	Dish Base that is best when producing a cost effective dish washing liquid that does the job
Engine Cleaner Liquid Base	Suitable for manufacturing of water based engine cleaner
Engine Cleaner Powder Base	Suitable for manufacturing of water based engine cleaner
Foam Bath Base	Foam Bath Base is a 2 in 1 product that is used to manufacture bubble bath and shower soap.
Laundry Liquid Base	Suitable for manufacturing of laundry liquid
Laundry Powder Base	Suitable for manufacturing of laundry liquid

McCryl -Floor Coat Base	Mc-cryl is suitable for manufacturing floor coating polish. Pigment can be added for color (Red,Black,Brown,Grey,Green)
Liquid Floor Polish Base (Polyshine)	Poly-Shine base is suitable for manufacturing self shine 21% liquid floor polish.
MSP Floor wax polish Base (Pshatsima)	Suitable for manufacturing of solvent wax floor polish. Solvent wax polish produces has a high level of shining on all surfaces
Multi-Liquid Base (General Purpose)	Suitable for manufacturing of all purpose cleaner which can be used for Heavy duty or Light Duty cleaning
Multi-Powder Base (General Purpose)	Suitable for manufacturing of all purpose cleaner which can be used for Heavy duty or Light Duty cleaning
Oven Cleaner Liquid Base	Oven base produces a highly alkaline oven cleaner that removes all fat and grime in ovens
Pinesol Liquid	Pinesol combined with the NANSA SS30 produces a high quality pine gel paste.
Shower Soap Base	Foam Bath Base is a 2 in 1 product that is used to manufacture bubble bath and shower soap.
Thick Bleach Liquid Base	Suitable for manufacturing Thick Bleach
Tile Cleaner Liquid Base	Tile Cleaner that effectively removes soil from tiles and ceramic leaving them shining and clean. Ideal for marble, slasto and stone.
Tile Cleaner Powder Base	Tile Cleaner that effectively removes soil from tiles and ceramic leaving them shining and clean. Ideal for marble, slasto and stone.
Tyre Polish Base	Suitable for manufacturing black tyre polish. This type of polish shines and its non dust on tyres.
Supa Wash Base	Fragranced base for manufacturing of dishwashing liquid.

EQUIPMENT FOR PRODUCTION



Mixing Machine with Agitator or (Drill & Paint Mixer) If you don't have mixing machine)

- Drum
- Scale
- Measuring cups
- Kettle
- Gloves & work wear (work suit)

AIRFRESHNER FORMULATION

Raw Materials	50LT	100LT
Water	40lt	80lt
Airfreshner Base	2.5kg	5kg
Fragrance(Your Choice)	500ml	1000ml
Dye(Your Choice)	0.001g	0.002g

Mixing Instructions

1. Add water and Airfreshner Base then run the machine to mix well
2. Add Fragrance, Dye and mix well

ALUMINIUM CLEANER FORMULATION

Raw Materials	50LT	100LT
Water	36lt	72lt
Alu -Base	10kg	20kg
Sulphuric Acid	4kg	8kg

Mixing Instructions

3. Add water and Alu Base then run the machine to mix well
4. Add Sulphuric Acid 98% and mix well

AMMONIA CLEANER FORMULATION

Raw Materials	50LT	100LT
Water	40lt	80lt
Handy Andy Base (HAB)	10kg	20kg
Kulu 10 or 15	2kg	4kg
Fragrance(Your Choice)	0,125ml	0,25ml
Ammonia Solution	0,25lt	0,5lt

Mixing Instructions

1. Add water and Handy Andy Base then run the machine to mix well
2. Add Kulu and fragrance, mix well.
3. **Start adding AMMONIA SOLUTION in small amounts while mixing.**

NB. Formulation can use less or a bit more of the ammonia but be carefull not to put to much ammonia

BLACK DIP FORMULATION

Raw Materials	50LT	100LT
Water	40lt	80lt
Black Dip Base	10kg	20kg

Mixing Instructions

1. Add water and Black Dip Base then run the machine to mix well

NB: Mix till product is dark black

2. Product is ready to be packed

BUBBLE BATH FORMULATION

Raw Materials	50LT	100LT
Water	40lt	80lt
Bubble Bath Base	10LT	20LT
Fragrance(Your Choice)	0,2ml	0,4ml
Dye(Your Choice)	0,002g	0,005g
ICP Solution(Ionic Compound)	(+)-1-2LT	(+)-2-4LT

Mixing Instructions

1. Add water and Bubble Bath Base then run the machine to mix well
NB: Mix till the base is completely dissolved. Allow the foam to completely melt.
2. Add fragrance and dye of your choice
NB. The quantity of dye and fragrance are just guidelines, use your own quantities to achieve desired smell and right shade of colour
3. Add small amounts of ICP Solution at a time while mixing till you achieve viscosity (Thickness).

CAR SHAMPOO FORMULATION

Raw Materials	50LT	100LT
Water	40lt	80lt
Car Shampoo Base	10LT	20LT
Dye(Your Choice)	0,0025g	0,005g
ICP Solution(Ionic Compound)	(+)-1-2LT	(+)-2-4LT

Mixing Instructions

1. Add water and Car Shampoo Base then run the machine to mix well
NB: Mix till the base is completely dissolved and allow the foam to melt.
2. Add dye of your choice
NB. *The quantity of dye is just a guideline; use your own quantity to achieve desired shade of colour*
3. Add small amounts of ICP Solution at a time while mixing till you achieve viscosity (Thickness).



CAR WASH & WAX FORMULATION

Raw Materials	50LT	100LT
Water	40lt	80lt
Car Wash & Wax Base	10LT	20LT
Dye(Your Choice)	0,0025g	0,005g
ICP Solution(Ionic Compound)	(+)-1-2LT	(+)-2-4LT

Mixing Instructions

1. Add water and Car Wash & Wax Base then run the machine to mix well
NB: Mix till the base is completely dissolved & allow foam to melt.
2. Add dye of your choice
NB. *The quantity of dye is just a guideline; use your own quantity to achieve desired shade of colour*
3. Add small amounts of ICP Solution at a time while mixing till you achieve viscosity (Thickness).

CARPET HIGH FOAM SHAMPOO FORMULATION

Raw Materials	100LT
Water	93lt
Carpet High Foam Powder Base	3,5kg
Carpet High Foam Liquid Base	25lt
Dye(Your Choice)	0,005g

MIXING INSTRUCTIONS

1. Add Water and CHF Powder Base then run the machine to mix well
NB. Mix till the base complete dissolves
2. Add CHF Liquid Base and mix well
3. Add dye of your choice
NB. The quantity of dye is just a guideline; use your own quantity to achieve desired shade of colour

DASHSHINE FORMULATION

Raw Materials	50LT	100LT
Water	40lt	80lt
Dash Shine Base	10kg	20kg
Fragrance(Your Choice)	0,25ml	0,5ml

Mixing Instructions

1. Add water and Dash Shine Base then run the machine to mix well
NB: Mix till the base is completely dissolved
2. Add fragrance of your choice
NB. The quantity of fragrance is just a guideline; use your own quantity to achieve desired smell and right shade of colour

DEGREASOR (HEAVY DUTY) FORMULATION

Raw Materials	100LT
Water	82,7lt
Degreaser Powder Base	5kg
Degreaser Liquid Base	5kg
Creysilic Acid	2.5kg
Fragrance (Your Choice)	0,2ml
Dye (Fluorescent Yellow – Standard)	0,2g

Mixing Instructions

1. Add Water and Degreaser Powder Base then run the machine to mix well
NB: Mix till the base is completely dissolved
2. Add Degreaser Liquid Base and mix well
3. Add Creysilic Acid and mix well
4. Add fragrance and dye of your choice
NB. The quantity of dye and fragrance are just guidelines, use your own quantities to achieve desired smell and right shade of color



SUPREME- DISHWASHER FORMULATION

Raw Materials	50LT	100LT
Water	40lt	80lt
Supreme Dishwasher Concentrate	10LT	20LT
Fragrance(Your Choice)	0,1ml	0,2ml
Dye(Your Choice)	0,0025g	0,005g
ICP Solution(Ionic Compound)	(+)-1-2LT	(+)-2-4LT

Mixing Instructions

1. Add water and Supreme Dishwasher Concentrate then run the machine to mix well
NB: Mix till the base is completely dissolved & Allow foam to melt
2. Add fragrance and dye of your choice
NB. The quantity of dye and fragrance are just guidelines, use your own quantities to achieve desired smell and right shade of colour
3. Add small amounts of ICP Solution at a time while mixing till you achieve viscosity (Thickness).

DELUX - DISHWASHER FORMULATION

Raw Materials	50LT	100LT
Water	40lt	80lt
Dishwasher Concentrate Delux	10LT	20LT
ICP Solution(Ionic Compound)	(+)-1-2LT	(+)-2-4LT

Mixing Instructions

1. Add water and Delux Dishwasher Concentrate then run the machine to mix well
NB: Mix till the base is completely dissolved & allow foam to melt.
 - This bases comes with green color and lemon fragrance
 - No need to add dye or fragrance
4. Add small amounts of ICP Solution at a time while mixing till you achieve viscosity (Thickness).



ENGINE CLEANER FORMULATION

Raw Materials	100LT
Water	82lt
Engine Cleaner Powder Base	5kg
Engine Cleaner Liquid Base (Red - Standard)	5lt
Creysilic Acid	2,5kg

MIXING INSTRUCTIONS

1. Add Water and Engine Cleaner Powder Base and run the machine to mix well
NB. Mix till the base complete dissolves
2. Add Engine Cleaner Liquid Base and mix well for at least 5mins
3. Add Creysilic Acid
4. Optional: You can add dye that is compatible with acidic solution.

HANDSOAP FORMULATION

Raw Materials	50LT	100LT
Water	40lt	80lt
i-Wash Handsoap base	10LT	20LT
Fragrance(Your Choice)	0,2ml	0,4ml
Dye(Your Choice)	0,0025g	0,005g
ICP Solution(Ionic Compound)	(+)-1-2LT	(+)-2-4LT

Mixing Instructions

1. Add water and Handsoap Base and run the machine to mix well
NB: Mix till the base is completely dissolved & allow foam to melt
2. Add fragrance and dye of your choice
NB: The quantity of dye and fragrance are just guidelines, use your own quantities to achieve desired smell and right shade of colour
3. Add small amounts of ICP Solution at a time while mixing till you achieve viscosity (Thickness).



LAUNDRY DETERGENT FORMULATION

Raw Materials	50LT	100LT
Water	14,15	28,3lt
Laundry Powder Base	0,6kg	1,2kg
Laundry Liquid Base	10lt	20lt
Fragrance (Your Choice)	0,25ml	0,5ml
Mcline Thickner Liquid	25lt	50lt

Mixing Instructions

1. Add Water and Laundry Powder Base then run the machine to mix well
NB: Mix till the base is completely dissolved
2. Add Laundry Liquid Base and mix well for at least 5min, add fragrance
3. Add the Mcline thickner liquid solution and mix well.

FLOOR WAX POLISH FORMULATION 1

Raw Materials	40LT	100LT
MSP Floor Wax Base	10kg	25kg
Paraffin <i>(kindly note the quantity is in litres not kgs)</i>	30LT	75LT
Fragrance (Cherry Polish/ Lavender Polish)	0,2ml	0,5ml
Red Solvent Dye(Optional)	0,001g	0,002g

Mixing Instructions

1. Add MSP Floor Wax Base and melt

NB. Make sure the base is completely melted before adding paraffin

2. Add Paraffin, Fragrance & Dye and mix for 10-30 minutes

FLOOR WAX POLISH FORMULATION 2

Raw Materials	40LT	100LT
PALM WAX	4kg	10kg
PARAFFIN WAX(SEMI OR FULLY REFINED)	6kg	15kg
Paraffin <i>(kindly note the quantity is in litres not kgs)</i>	30LT	75LT
Fragrance (Cherry Polish/ Lavender Polish)	0,2ml	0,5ml
Dye(Optional)	0,001g	0,002g

Mixing Instructions

3. Add Palm Wax Base and melt & Add Paraffin Wax and Melt

4. Add Paraffin, Fragrance & Dye and mix for 10-30 minutes

POLYSHINE LIQUID FLOOR POLISH 21% WHITE FORMULATION

Raw Materials	50LT	100LT
Water	24,50lt	49lt
Polyshine Base	10kg	20kg
Ewax H30	3kg	6kg
Primal B924	12,5kg	25kg

Mixing Instructions

1. Add Water and Polyshine Base then run the machine to mix well for about 10mins
2. Add Water Soluble Wax and mix well
3. Add Primal B924 and mix well

USE

Polyshine liquid floor polish suitable for concrete and wooden floors

FLOOR COATING LIQUID POLISH / PAVING POLISH - 1

Raw Materials	50LT	100LT
Water	25.45lt	50.9lt
POLYCRYL	22,27kg	44,55kg
Solvent No.1	0,5lt	1lt
Poly-Solvent	0.5lt	1lt
WB Pigment-Liquid	0.750kg	1.5kg
Ammonia Solution	0,125kg	0,25kg
Jethase 940	0.5kg	1kg

Mixing Instructions

1. Add Water and Polycryl then run the machine to mix well for about 10mins
2. Add Water Solvent No 1 and mix well & Add Poly Solvent
3. Add Liquid Pigment and mix well (Red, Black, Green, Yellow, Brown, Grey and White)
4. Add Ammonia and mix well
5. Add Water and mix well
6. Add Jethase 940 and mix well. If product is not thick enough Jethase can be added in small amounts while mixing.

NB

To make grey color mix black polish with white polish

USE

Floor Coating Liquid Polish is used on paving and floors

FLOOR COATING LIQUID POLISH / PAVING POLISH - 2

Raw Materials	60LT	120LT
Water	39.25Lt	78.5lt
MCCRYL 0777	20kg	40kg
WB Pigment Color-Liquid	0.750kg	1.5kg

Mixing Instructions

7. Add Water and Mc-cryl then run the machine to mix well for about 10mins
8. Mix till Mccryl is dissolved and a creamy paste is formed
9. Add Liquid Pigment and mix well (Red, Black, Green, Yellow, Brown, Grey and White)

NB

To make grey color mix black polish with white polish

USE

Floor Coating Liquid Polish is used on paving and floors

GENERAL PURPOSE CLEANER FORMULATION

Raw Materials	50LT	100LT
Water	40lt	80lt
General Purpose Powder Base	2kg	4kg
General Purpose Liquid Base	5kg	10kg
Fragrance(Your Choice)	0,1ml	0,2ml
Dye(Your Choice)	0,025g	0,05g

Mixing Instructions

1. Add water and GP Powder Base and run the machine to mix well
NB: Mix till the base is completely dissolved
2. Add GP Liquid Base and mix well for at least 5mins
3. Add fragrance and dye of your choice
NB. The quantity of dye and fragrance are just guidelines, use your own quantities to achieve desired smell and right shade of colour

OVEN CLEANER FORMULATION

Raw Materials	50LT	100LT
Water	40lt	80lt
Caustic Soda Flakes	3,5kg	7kg
Oven Cleaner Base	10lt	20lt
Dye(Your Choice)	0,025g	0,05g

MIXING INSTRUCTIONS

1. Add Water and Caustic Soda Flakes then run the machine to mix well
NB. Mix till the Caustic Soda Flakes completely dissolves
2. Add Oven Cleaner Base and mix well
3. Add Dye and mix(Dye should be compatible with Alkaline solution)



PINEGEL FORMULATION

Raw Materials	50LT	100LT
Water	17,5lt	35lt
NANSA SS30(McDoman)	30kg	60kg
Dye(Your Choice)	0,005g	0,01g
Pinesol Liquid	2,5lt	5lt

MIXING INSTRUCTIONS

1. Add Water and Nansa SS30 then run the machine to mix well
NB. Please remove foam, run the machine at a very low speed to avoid foam
2. Add Dye and mix well
3. Add Pinesol Liquid in small amounts while mixing. Mix for about 30minutes till the product is thick.

TALAS -TILE CLEANER FORMULATION

Raw Materials	50LT	100LT
Water	45lt	90lt
Tile Cleaner Powder Base	4kg	8kg
Tile Cleaner Liquid Base	5lt	10lt
Fragrance(Your Choice)	0,025ml	0,05ml
Dye(Your Choice)	0,01g	0,01g

Mixing Instructions

1. Add water and Tile Cleaner Powder Base and run the machine to mix well
NB: Mix till the base is completely dissolved
2. Add Tile Cleaner Liquid Base and mix well for at least 5mins
3. Add fragrance and dye of your choice
NB. The quantity of dye and fragrance are just guidelines, use your own quantities to achieve desired smell and right shade of colour

THICK BLEACH FORMULATION

Raw Materials	100LT
Water	55lt
Sodium Hypochlorite (12-15%)	20kg
TB Liquid Base	25kg

MIXING INSTRUCTIONS

1. Add Water and Sodium Hypochlorite then run the machine to mix well
2. Add TB -Liquid Base in small amounts while mixing.

BLEACH FORMULATION

Raw Materials	100LT
Water	70kg
Caustic Soda Flakes	0,450g
Sodium Hypochlorite (12-15%)	30kg

MIXING INSTRUCTIONS

1. Add Water and Caustic Soda Flakes and mix well, add Sodium Hypochlorite then run the machine to mix well

BLACK TYRE POLISH (NON DUST) FORMULATION

Raw Materials	50LT	100LT
Water	30LT	60lt
TYRE POLISH BASE	10kg	20kg
BLACK PRIMAL	10kg	20kg

MIXING INSTRUCTIONS

1. Add Water and Tyre Polish Base then run the machine to mix well
2. Add Black Primal and mix well

SANITIZER 70% ALCOHOL FORMULATION

Raw Materials	50LT	100LT
Water	24,875lt	49,749lt
Sanitizer Base	25LT	50LT
Fragrance(Your Choice)	0,125ml	0,25ml
Dye(Your Choice)	0,0005g	0,001g

Mixing Instructions

1. Add Water and Sanitizer Base then run the machine to mix well
2. Add Perfume & Dye and mix well(Optional)

FABRIC SOFTNER FORMULATION-1

Raw Materials	50LT	100LT
Water	26LT	51LT
Tetranlyl/ Quart Fabric Softner Base	4kg	8kg
Fragrance	500g	1LT
DYE(Your Choice)	Customize	Customize
Mcline Liquid Thickner	20kg	40kg

Mixing Instructions

1 Add water and Tetranyl and run the machine to mix well

NB: Mix till the tetranyl is completely dissolved

2 Add Fragrance and mix well for at least 5mins

3 Mix your Dye with small amount of warm water and add to your mixing tank.

NB. The quantity of dye and fragrance are just guidelines, use your own quantities to achieve desired smell and right shade of colour

4 Add Mcline Liquid Solution and mix well



FABRIC SOFTNER FORMULATION-2

Raw Materials	50LT	100LT
Water	46,2LT	92,4LT
McFAB-BASE	4,3kg	8,6kg
Fragrance(Your Choice)	500g	1LT
DYE(Your Choice)	Customize	Customize

Mixing Instructions

1 Add water and McFAB-Base and run the machine to mix well

NB: Mix till the McFAB Base is completely dissolved

2 Add Fragrance and mix well for at least 5mins

3 Mix your Dye with small amount of warm water and add to your mixing tank.

NB. The quantity of dye and fragrance are just guidelines, use your own quantities to achieve desired smell and right shade of colour

DESCALER

Raw Materials	50LT	100LT
Water	33LT	66LT
DISCALER-BASE	17kg	34kg

Mixing Instructions

- 1 Add water and Descaler Base and run the machine to mix well

SUPAWASH- DISHWASHER FORMULATION







Raw Materials	50LT	100LT
Water	40lt	80lt
SupaWash Base	10LT	20LT

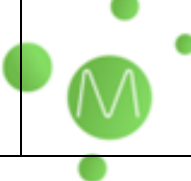
Mixing Instructions

2. Add water and Supawash Dishwasher Concentrate then run the machine to mix well
NB: Mix till the base is completely dissolved & allow foam to melt.
 - This bases comes with green color and lemon fragrance
 - No need to add dye or fragrance

MELT AND POUR SOAP BASES

Top Quality Melt & Pour Glycerine Soap Bases available. Choose from a wide range of Soap Bases. Just add your fragrance and color.

<p><u>FEATURES & BENEFITS</u></p> <ul style="list-style-type: none"> • Contains natural humectants(Glycerine) • No alcohol so it will not leave your skin dry or itchy • All 100% vegetable formula • Biogradable • High transparcny and attractive to look • Low processing foam on melting • Colourless Appearance • Odourless base,for superior fragrance release • Compatible with wide range of fragrances • Halal Certified • No Animal Testing • Easy to melt • Formulated using only superior quality ingredients 			
			


McDoman Chemicals

ITEM NAME	PACK SIZE
Transparent / Clear Glycerine soap base	10Kg
Ultra White soap base	10Kg
Castile Soap Base	10Kg
Activated Charcoal Soap Base	10Kg
Sulphate-free Natural Goat Milk soap base	10Kg
Sulphate free Natural Shea Butter Soap base	10Kg
Sulphate free Natural Aloe Vera Soap base	10Kg

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